

OUR
20th YEAR

BADGER STATE

Smoke Signals

For Radio Amateurs • By Radio Amateurs

RETURN ADDRESS:
Kenneth A. Ebnetter
822 Wauona Trail
Portage WI 53901

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The Second Meeting of the Ten-Ten Gang



The Ten-Ten International Net held its second biennial convention August 11-13 at the Grand Hotel in Milwaukee, WI. Among those attending were, pictured above, left to right: Verne Teske, W9RYA, Oak Creek; Tom, RA6AR, Soviet Union; Rich Regent, K9GDF, Section Manager of Wisconsin Section ARRL, Milwaukee; and Dave Sumner, K1ZZ, who is Secretary and Executive Vice-President of the American Radio Relay League, and is also publisher of the ARRL Magazine, *QST*. There's more about the convention on page 12 of this issue.

- Photo by Ken Ebnetter, K9EN

ARRL Board Says Yes to No-Code

See page 7

Amateur License May Cost \$30.00

Word has reached the American Radio Relay League that the House Energy and Commerce Committee is proposing a budget reconciliation package that includes increases in Federal Communications Commission "cost of regulation" fees implemented four years ago by Congress. At the time of their implementation, Amateur Radio was exempted from those fees. That exemption may now be in jeopardy.

The budget reconciliation package that was marked and approved by the Committee on July 13 proposed an application fee of \$30.00 for each of the following actions involving amateur licenses or permits:

- * New License
- * Modification of License
- * Renewal of License
- * Reciprocal Permit for Alien Amateur License
- * Renewal or Modification of Amateur Club, RACES, or Military Recreation Station License.

The \$30.00 fee is the same as is being proposed for a wide variety of other Private Radio licenses (ship, aircraft, land mobile, GMRS, etc.).

As indicated on the story about the ARRL's July Board meeting on page 7 of this issue of *BSSS*, the ARRL has pledged to oppose this scheme.

- The ARRL Letter

**Wisconsin Nets Association
Picnic and Fall Meeting
Saturday, September 9
North Wood County Park
West of Wisconsin Rapids**

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Swapfests and other Social Events

SUNDAY, SEPTEMBER 10, 1989. BARS Ham-Computerfest, Joliet, IL. Bolingbrook ARC, c/o Ed Weinstein, WD9AYR, 7511 Walnut Ave, Woodridge, IL 60517.

SATURDAY & SUNDAY SEPTEMBER 16-17, 1989. Superfest 89, Exposition Gardens, West Northmoor Road, Peoria IL. Contact: Peoria Area ARC, P.O. Box 3461, Peoria, IL 61614.

SUNDAY, OCTOBER 15, 1989. The 11th Annual Fall Ham & Computer Swapfest, Waukesha, WI., sponsored by the Kettle Moraine Radio Amateurs, Inc. Contact KMRA Swapfest, 313 Hillview Circle, Waukesha, WI 53188.

SUNDAY, OCTOBER 29, 1989. Late Fall Hamfest, at Lake County Fairgrounds, Grayslake, IL. contact: CAP, 15220 West Redwood Lane, Libertyville, IL 60048.

SATURDAY, NOVEMBER 4, 1989. 6.91 Friendly Fest, Serb Hall, 51st St. & Oklahoma, Milwaukee, WI. Contact: Milwaukee Repeater Club, P.O. Box 2123, Milwaukee, WI 531201.

SUNDAY, MARCH 25, 1990. Lamarsfest at Grayslake, IL. Contact Lamars, Box 751, Libertyville, IL 60048.

As a service to our readers, this section of Badger State Smoke Signals is available without charge to list your upcoming Swapfest, Hamfest, dinner, picnic, party or other event of interest to Radio Amateurs in Wisconsin and nearby areas.

Send information on your event to Kenneth A. Ebner, K9EN, 822 Wauona Trail, Portage, WI 53901. In addition, space is available at attractive rates on our advertising pages. For information, please contact K9ZZ or K9EN.

Club Meetings

BADGER AMATEUR RADIO SOCIETY
(W9YT - UNIVERSITY OF WISCONSIN - MADISON)
Monthly while school in session - 2nd Wednesday - 7:30 p.m. - B-314, Electrical Engineering Building.

CENTRAL WISCONSIN RADIO AMATEURS, LTD.
(STEVENS POINT)
Second Wednesday.

EAU CLAIRE AMATEUR RADIO CLUB
2nd Tuesday - 7:30 p.m. - Parks and Recreation Bldg., Oxford and 1st Streets, Eau Claire. Hams, guests welcome. Travelers welcome on wide area club repeater K9UXP, 146.31/91.

FOUR LAKES AMATEUR RADIO CLUB (MADISON WI)
First and third Tuesdays - 7:30 p.m. - Red Cross Bldg., 4860 Sheboygan Ave.

FOX CITIES AMATEUR RADIO CLUB
Third Monday - 7:00 p.m. - Roosevelt Jr. High School, 318 E. Brewster St., Appleton. Info: (414) 735-6294.

GREATER MILWAUKEE DX ASSOCIATION
Fourth Monday of the month at 7:30 p.m. Contact Jerry Scherkenbach, N9AW, at (414) 481-8831 for meeting location.

GREEN BAY MIKE AND KEY CLUB
Second Thursday - Red Cross Bldg., corner Danz and Deckner, Green Bay.

GREEN FOX AMATEUR RADIO CLUB
Third Monday - 7:30 p.m. - Green Lake Town Hall, int. of county hwy. K and N.

KETTLE MORAINÉ RADIO AMATEURS
Second Friday, 7:30 p.m. at the Kettle Moraine High School, located near the intersection Hwys 18 & 83 in Wale, WI. Talk-in on 147.39 repeater.

LAKESHORE RPTR. ASSN.
Last Tuesday, Jan., Apr., Jul., & Oct., 7:30 p.m. Red Cross Bldg., 4521 Taylor Ave., Racine, WI.

MANITOWOC COUNTY RADIO AMATEURS
Board meeting, First Wednesday.
General meeting, Second Wednesday - both meetings held at 7:00 p.m. at the Red Cross Building, 1816 Washington St., Manitowoc.

MENOMONEE FALLS AMATEUR RADIO CLUB
Last Tuesday - Doors open 7:30 p.m., meeting begins 8:00 p.m. - Security Savings and Loan, Menomonee Falls. Amateurs and guests welcome.

MILWAUKEE RADIO AMATEURS CLUB
Fourth Thursday - Wauwatosa Savings and Loan, 7500 W. State St. (November on the third Thursday. No meetings in July, August and December.) Meetings begin at 7:00 pm.

OZAUKEE RADIO CLUB
Second Wednesday - 7:30 p.m. - Saukville Community Center.

QCWA - WISCONSIN CHAPTER #55
For information about QCWA, contact Richard Regent, K9GDF. The Wisconsin Chapter holds Spring and Fall dinner meetings. Fall meeting on October 7, 1980 at Ocauchee. Contact K9GDF.

QCWA - SOUTHEAST WISCONSIN CHAPTER #162
Meets third Monday monthly, 7:30 p.m., Around the Clock Restaurant, 3012 Rapids Drive, Racine.

RACINE MEGACYCLE CLUB
Second Monday, 7:30 p.m., Red Cross Bldg., 4521 Taylor Ave., Racine, WI

RIVERLAND AMATEUR RADIO CLUB
First Tuesday - 7:30 p.m. - Onalaska Community Center, Onalaska WI.

ROCK RIVER RADIO CLUB
First Tuesday - 7:30 p.m. CST, 8:00 p.m. CDT - Dodge County Sheriff's Dep't, 141 N. Main, Juneau WI. ARES net - 146.64 MHz., Monday 7:30 p.m. CST, 8:30 p.m. CDT. 7277 Khz., Saturday 10:30 a.m.

SHEBOYGAN COUNTY AMATEUR RADIO CLUB
Second Tuesday - 7:00 p.m. - Sheboygan Red Cross/Boy Scout Bldg., 2032 Erie Ave.

SOUTH MILWAUKEE AMATEUR RADIO CLUB
First Wednesday - Legion Post 434, Shepard Ave., Oak Creek WI. Auctions in March and October.

TAYLOR COUNTY AREA AMATEUR RADIO CLUB (TCAARC) MEDFORD
Usually the 2nd Thursday of the month at 7:00 PM sharp. Usual location: emergency government meeting room, basement of Sheriff's Annex to Taylor County Courthouse, 2nd and Ogden Sts., Medford, WI. Talk-in on 147.75/15 or 145.27(-600) repeaters. Amateurs & guests are welcome. ARES Net, Wednesday nights at 8:30 PM on

BADGER STATE SMOKE SIGNALS

OFFICERS AND STAFF

CHAIRMAN
Kenneth A. Ebner, K9EN
822 Wauona Trail
Portage, Wisconsin 53901
(608) 742-3560

EDITOR
Jim Romelfanger, K9ZZ
412 1/2 Ash Street
Baraboo, WI 53913

TREASURER
Jim Decker, WB9UQT
P.O. Box 337
Baraboo, Wisconsin 53913

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3 years	(36 issues)	\$23.00

ADDRESS CHANGES AND CORRECTIONS should be sent to Kenneth A. Ebner, address above.

EDITORIAL MATERIAL, PHOTOGRAPHS, FEATURE ARTICLES, AND EXCHANGE PAPERS should be sent to Jim Romelfanger, address above.

DISPLAY ADS or INQUIRIES REGARDING DISPLAY ADS may be directed to Harry Westlund or Kenneth Ebner, addresses above.

SUBSCRIPTIONS should be sent, with check or money order (do not send cash), to Jim Decker, address above.

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The opinions expressed in editorials, guest editorials, columns, articles, and letters are the opinions of the authors only, and do not, unless otherwise stated, express or imply agreement or endorsement by Badger State Smoke Signals, or by any other organization.

147.75/15. For info call Mike, N9GHZ at (715) 223-3996.

TRI-COUNTY AMATEUR RADIO CLUB

Second Sunday of each month. Meetings are held at 7:00 p.m., at the Trinity Lutheran Church, 314 Barrie, Fort Atkinson, WI.

WASHINGTON COUNTY AMATEUR RADIO CLUB

Second Tuesday: ARES/RACES - 7:30 p.m., club meeting - 8:00 p.m., Town of Polk Town Hall, Hwy. 60 and Scenic Dr. Net on 146.13/73 every Monday 7:30 p.m.

WATERTOWN AMATEUR RADIO CLUB

First Thursday of the month at 7:00 p.m., Eaton Corp., 901 s. 12th St., Watertown, WI

WEST ALLIS RADIO AMATEUR CLUB

Second Tuesday - 8:00 p.m. - St. Francis Savings, 9330 W. Greenfield Ave.

WISCONSIN ASSOCIATION OF REPEATERS

Meetings are held Quarterly, with time and location to be announced. Repeater licensees, trustees, and sponsors are urged to attend W.A.R. meetings. All interested parties are welcome, as well.

WISCONSIN VALLEY RADIO ASSOCIATION (WAUSAU)

First Tuesday - 7:30 p.m. - Location varies; info on 146.04/64, Wausau.

YELLOW THUNDER AMATEUR RADIO CLUB (BARABOO)

Days rotate: 1989 meeting dates: Mon., Sep. 18, Tue., Oct. 17, Wed., Nov. 15, Thu., Dec. 14, 1989. Monday meetings in room 28B of the Baraboo Civic Center; all others in room 25. Meetings start 7:30 p.m.

Let Badger State Smoke Signals know your club's meeting dates, and we will let our readers know of your meetings and activities. There may be Amateurs in your area interested in joining your club, or members of other clubs interested in making an interclub visit.

The TEST POINT



The following are known locations where Amateur Radio license examinations are scheduled in the Badger State area. (Underlined are added or changed since last months BSSS.)

September 6, 1989 Milwaukee WI (MRAC)
 September 16, 1989 Milwaukee, WI (BE)
 October 4, 1989 Milwaukee WI (MRAC)
 October 14, 1989 Eau Claire WI
 November 1, 1989 Milwaukee WI (MRAC)
 November 11, 1989 Menomonie, WI
 December 7, 1989 Milwaukee WI (MRAC)
 December 2, 1989 Stevens Point, WI
 Monthly, First Sat. Racine, WI
 Monthly, Last Sat. Tomahawk, WI
 Monthly, Third Sat. Loves Park, IL
 Minnesota tests listed at end of column

GENERAL RULES FOR MOST EXAMINATIONS:

Be sure to check with sponsors in the event there are changes and/or errors in the dates or information given.

Most examinations require filing an FCC Form 610 and advance registration at least 30 days before the exam date. (Some VECs permit walk-ins. Check with sponsor.)

To register, you must first secure a copy of the current FCC Form 610 and fill it out completely (AND CORRECTLY). Get your form from an FCC Field Office, the ARRL or Badger State Smoke Signals. Send a 25¢ SASE if you request one from the ARRL or BSSS. In most cases, forms can also be obtained from the sponsoring group.

ARRL/VEC examinations require a check for \$4.75 payable to "ARRL/VEC".

The FCC now requires applicants to show their original Amateur license to the VEC. A copy of your license must be attached to your FCC form 610. You will also be required to have a photo ID, or other acceptable identification.

Technician class licensees must show proof of testing before March 21, 1987, in order to upgrade to General with a code test only.

Additional information is given below.

MILWAUKEE RADIO AMATEURS' CLUB - MRAC/VEC

1989 dates: Sep. 6; Oct. 4; Nov. 1; Dec. 7

Tests are Wednesday evenings at 7:00 p.m. at Wauwatosa East High School, North 74th and Milwaukee Avenue. Enter through the southmost entrance on 74th Street. Go to room 256 on the 2nd floor. Please arrive promptly so testing can be completed before 10:00 p.m. Bring your original license and three (3) good photocopies, plus two forms of identification, such as a driver's license, etc. A pen and \$4.75 for the exam fee is also required.

Register in advance on a 15 cent U.S. postal card; print the grade of license you are applying for, and your name, address, and telephone number. Send the card to MRAC/VEC, c/o Jack Krause, W9JK, 1737 North 116th Street, Wauwatosa, WI 53226, or to Ed Seruga, KE9JJ, 3840 South 43rd Street #21, Milwaukee, WI 53220. Telephones: (414) 774-6999 or (414) 545-6299.

BADGER EXAMINERS (BE) - MILWAUKEE

1989 examination dates: September 16.

Unless otherwise noted, examinations are administered beginning at 1:00 p.m. at St. Nicholas Parish, 5353 N. Green Bay Ave. (2 1/2 blocks south of Silver Spring), Milwaukee. Number for coin telephone at exam location is 228-9994. Walk-ins are welcome. To register in advance, send a post card with your name, test or tests you wish to take, date you wish to be tested, your call sign, address and telephone number to Badger Examiners, Gary J. Sharbuno, WA9UJK, 5119 W. Willow Rd., Brown Deer, WI 53223.

EAU CLAIRE, WISCONSIN

1989 examination dates: October 14

Facilities Management building on the University of Wisconsin - Eau Claire campus. Exams are given from 9 a.m. until noon. All walk-ins accepted. For further information, call Carl Searing, W9NW, at 715/834-1303.

MENOMONIE, WI (ARRL/VEC)

November 11, 1989.

Sponsored by the Dunn County ARC. Walk-ins only. Credit Union Office Building, Conference Room, lower level, 444 S. Broadway, Menomonie, WI. Contact: Dr. Thomas W. King, WF9I, c/o office, 444 S. Broadway, Suite 1, Menomonie, WI 54751. (715) 235-4747 (O), 235-5757 (H).

RACINE, WISCONSIN - ARRL/VEC

Monthly - first Saturday, except January, July, and August.

Exams are given at the Red Cross Building, 4521 Taylor Avenue, Racine. Walk-ins are permitted. Inquiries and registrations should be directed to William Firchow, Jr., NW9P, 1912 27th Street, Kenosha, WI 53140, telephone (414) 658-8390.

Last Saturday of every month.

Tomahawk Volunteer Examiners (ARRL/VEC). Tomahawk, WI. No pre-registration required, but appointment would be appreciated. Registration at 8:30 a.m. and testings starts at 9:00 a.m. For location or other information, inquire on 145.43 MHz. repeater or contact: Greg Garner, WA9W, 4088 Highway 51, Harshaw, WI 54529. Telephone (715) 453-7096.

Third Saturday of every month.

Northern Illinois Volunteer Examiners (DeVry VEC). Held at North Suburban Library on North Second Street in Loves Park, IL. Contact: Gene Melton, AK9N, 2901 Billie Rd., Rockford, IL 61109. (815) 874-6867.

MINNESOTA TESTS

September 9, 1989	ARA Bloomington
September 23, 1989	SPRC
October 14, 1989	ARA Bloomington
October 21, 1989	Minneapolis ARC & Gopher ARC
October ??, 1989	Hamfest Minnesota Robbinsdale ARC
December 2, 1989	SPRC
December 9, 1989	ARA Bloomington

Contact:

ARA Bloomington, Art Putt, KDØCL 881-7181
 SPRC, Mary Ketzler, KSØOMX 426-4438
 Minneapolis ARC & Gopher ARC,
 Jeff Kolb, WB5MTV 699-6861
 Robbinsdale ARC, Ron Schultz, NAØU 920-7473

The above listing of Minnesota tests came from the Ground Wave newsletter published by the St. Paul ARC. If you are interested in any of these exams, save this issue as BSSS may not be able to include the information in every issue.

This section of Badger State Smoke Signals is available to publicize your Volunteer Examiner Amateur Radio license examination schedules.

Please send us your schedules of dates, times, and locations that you will be conducting examinations and we will include the information here. Be sure to include contact address and any other necessary requirements. Information should be sent to K9EN or K9ZZ at the address shown on page 2.

Wisconsin Nets Association Ltd.

WISCONSIN NETS					
Net	WNA	Freq	UTC	CDT	Manager
BWN	Yes	3984	1100	0600	KC9CJ
BEN	Yes	3985	1700	1200	WA9W
WSBN	Yes	3985	2230	1730	K9ANV
WNN	Yes	3723	2300	1800	KA9TTM
WSSN	Yes	3645	2330	1830	N9BDL
WINE	Yes	3662	0000	1900	WB9ICH
WINL	Yes	3662	0300	2200	W9NGP
NWTN	Yes	34/94	2330	1830	NS9Q
Gr. Bay	No	72/12	0145	2045	WB9NRK
			Thu.	Wed.	
RACES	No	3993.5	1715	1215	WC9AAG
		USB Tues and Thurs			
RACES	No	3993.5	1300	0800	WA9OAY
		LSB Sunday			

Section Manager's notes

Richard R. Regent, K9GDF
5003 South 26th Street
Milwaukee, WI 53221

Congratulations to Green Fox ARC for renewing as an ARRL Special Service Club.

A beautiful wood plaque with QSL and nameplate was presented to KJ9I for furthering DX through operating at the Melish Reef (VK9ZM) and Willis Island (VK9-ZW) expedition.

New Greater Milwaukee DXA President: N9AW, Vice Pres.: K9GS, and Sec./Treas.: N9AU.

New Wisconsin Novice Net Manager is KA9FVX, thanks for all volunteer NM work of KA9TTM.

Badger Weather Net has premier newsletter called "Pinholes" edited by N9GJL.

VUCC for 6 meters was achieved by WB9YPY.

October 4th, exams by the Milwaukee RAC 7:00 p.m. at Wauwatosa East High School.

Quarter Century Wireless Association, Wisconsin Chapter 55, will meet October 7th, with a lunch at noon, program and auction at Weissgerber's Golden Mast Inn at Okauchee Lake near Okauchee. Visitors and guests are welcome to join the QCWA fun.

October 11th, Ozaukee Radio Club meets at Saukville Municipal Building at 7:30 p.m. W9YCV will give a program on the latest Amateur Radio satellite operations, including a demonstration on tracking with computers; I'll be present to answer ARRL questions. Refreshments will be available. Please bring a neighbor or friend along.

On October 14th, license exams will be held at the Facilities Management Building on the U.W. - Eau Claire Campus, 9:00 a.m. until noon.

October 15 is the date for the fall Ham and Computer Swapfest, Waukesha, starts 7:00 a.m., sponsored by the KMRA.

October 21st, exams at St. Nicholas in the Milwaukee area, contact WI9M.

Emergency: Flight 232

On July 19, 1989, at 3:55 p.m., United Airlines Flight 232, a DC-10 aircraft carrying 296 passengers, crashed while attempting to make an emergency landing at the Sioux Gateway Airport. The response to this tragedy by the Amateur Radio community was phenomenal. The following is an account of this response:

At about 3:30 p.m. the alarm was sounded at the Sioux City Fire Department for an "Alert 2" at the airport. An "Alert 2" indicates that a pilot has declared an in-flight emergency. This calls for the immediate dispatch of the crash, fire, and rescue units. Before these units arrived on the scene, the call was changed to an "Alert 3" status. An "Alert 3" indicates that a crash is imminent or has occurred. At 3:55 p.m., Flight 232 did crash on impact near the end of a closed runway at the airport.

Brenda Waldron, supervisor of the Sioux City Communications Center, phoned Doug Potts, KA0VHV, at about 4:45 p.m., and asked that the local Amateur Radio operators be placed on stand-by to assist with communications during the disaster. Because Loren Barbee, WB0YOW, the Woodbury County Emergency Coordinator, was hospitalized, Doug, the Assistant Coordinator, activated the emergency net on the 146.91 repeater, and asked for Ham volunteers.

John Bylin, K0AAR, and Mike Nickolaus, NF0N, were called by the local Red Cross Chapter, and responded to the disaster site. Rick Larsen, KD0XD, responded to the Red Cross office. Carol Campbell, KA0RJR, responded to the Emergency Room at St. Luke's Regional Medical Center. Pete Hittle, N0JTE, responded to the Emergency Room at Marian Health Center. Denny Migis, WB0YNY, and Delaine David, KA0GDP, responded to the control tower at the Sioux Gateway Airport. Alan Pederson, KA0VNM, and Otis Baker, KA0VOE, responded to Briar Cliff College. Doug Potts established net control at his residence, assisted by George Weaver, N0HUD.

In addition to these locations, Amateur Radio operators were dispatched later to the Flight Line at the disaster site, the temporary morgue on the airport grounds, the Command Post at the disaster site, and the cafeteria at the 185th Air National Guard. From 1 - 5 hams were active at each of these locations for the next five days.

Approximately sixty Amateur Radio Operators responded to this tragedy, contributing over 1100 hours. Each Ham furnished his/her own equipment, and Denny's Technical Service, of Lemars, Iowa, loaned additional 2-meter radios and antennas.

The Ham operators passed traffic for the Sioux City Police and Fire Departments, Woodbury County E.O.C., the 185th Air National Guard, Sioux Gateway Airport, Red Cross, the Salvation Army, the National Transportation Safety Board, St. Luke's, Marian Health Center, the ambulance services, medical personnel, morticians, and private individuals.

The Hams also assisted in locating personnel for the agencies and persons involved in the emergency response.

Offers of help were received from other Amateur Radio communities from Sioux Falls, Lincoln (Neb.), Des Moines, Denison, Council Bluffs, and Omaha. Several Hams from the Omaha-Council Bluffs area did come to Sioux City and joined local Hams in communications assistance. Mike Nickolaus, NF0N, Dakota County Emergency Coordinator, and Al Huygens, WD0FOY, Plymouth County Emergency Coordinator, assisted in the coordination effort.

The all-out effort by the Amateur Radio operators was acknowledged and appreciated by all of those involved in the response to the crash of Flight 232. No words can express the gratitude felt for all of you who worked so professionally and selflessly throughout this ordeal. Thank you.

- Doug Potts, KA0VHV in
Sooland Amateur Radio Association's
KerChunk, Sioux City, Iowa

Sorry to report Silent Key KA9JPC.

Thanks to communicators who worked hard, under the direction of EC WB9SMM, helped to make the Milwaukee City of Festivals and Circus Parades a success.

Emergency Coordinator training and certification course completed by WD9FLJ, KA9YQH, and WB9SMM.

Any volunteers for State Government Liaison or Affiliated Club Coordinator? Ask me for job descriptions.

President of Rock River RC, W9BCV, has been talking about his two month vacation travels in Alaska.

Wisconsin Valley RA helped at World Cup Kayak Races; one of their operators was stationed right at the site of an emergency, and was able to radio for an ambulance and safety personnel, which arrived at the scene within seconds.



SSB

SELL SWAP BUY

OUR WANT ADS GET RESULTS

FOR SALE: Byte Magazines. 135 issues from Dec. '77 to May '89. Plus 6 extra "All IBM" issues. Missing: 03/78, 02, 03, 04/79, 03, 04, 05, 06/86. \$100.00. If you arrange for pickup, I'll toss in 12 issues Software Tools 02/86 to 01/87 (12 issues) and Computer Language 11/84 to 10/88 (48 issues) FREE! Lee Andreas, N9BDL, at Callbook address, or on WBSN 3985 KHz daily at 5:30 p.m.

There is no charge for ads in Sell, Swap, Buy. Please send your ad to Ken Ebner, K9EN, 822 Wauona Tr., Portage, WI 53901.



HERE and THERE

FCC LICENSE FIGURES FOR JUNE: Here are the FCC licensing figures comparing June with the two previous months.

	April	May	June
Extra	48,049	48,471	48,711
Advanced	100,183	100,572	100,808
General	114,975	115,404	115,686
Tech.	106,341	108,158	109,296
Novice	83,371	84,266	84,806
All Ops.	452,919	456,871	459,307
Clubs	2,057	2,063	2,063
Mil Rec	112	112	112
RACES	308	299	299
Total	455,396	459,345	461,781

Activity (New)

Novices	2,512	2,869	1,805
All New	2,821	3,302	2,003

Upgrades to:

Technician	1,417	1,923	1,242
General	534	663	422
Advanced	479	591	356
Extra	278	389	215

Total	2,708	3,566	2,235
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- The ARRL Letter

PIRATE TAXI UPDATE: The invasion of 10 meters ("Here and There", Aug. BSSS) by taxicabs running as pirate two-way dispatch stations may be getting their equipment from Times Square's "going out of business" stores. These are gift shops located the length of 42nd Street that specialize in the sale of just about every type of merchandise you can imagine to the unsuspecting tourist trade. Now, amateur radio gear at inflated prices is

appearing in those shops.

Writing in the July issue of the Lake County Amateur Radio Association newsletter, The LCRA Patch, Bob Liddy, K8BL, notes that while on a recent business trip to New York City, he and John Papay, K8YSE, stopped into one of these electronic gift stores and noted a number of pieces of amateur radio gear on display in the window.

Inside the store were Icom, Kenwood and Yaesu hand-helds behind a glass case. The counter man, who spoke only broken English, informed K8BL and K8YSE that these radios were deluxe high-power units that featured "lots of watts."

The clerk informed the amateurs that he would sell them an Icom IC-2GAT, which had a sticker price on the box of \$1379.95, for only \$700!

- Westlink Report

JOE HELPS AGAIN: Friday evening, August 4, 1989, a line of very nasty thunderstorms rolled across southern and central Wisconsin. The storms brought more much-needed rain, providing a bit more recovery from the effects of the severe drought of 1988. The storms also brought winds up to 65 MPH, and tennis-ball size hail near La Crosse; large hail fell in other areas, too. Power was cut to many areas, including some cities and parts of cities.

At the height of the storms' fury, a call went out on the SkyWarn Net on 146.88/Baraboo for a generator to use in Mount Horeb for a patient's ventilator. Joe Imilkowski, W9CWD, of Fitchburg, responded; he was using his generator for his own home, which was without power, but he gladly disconnected the generator from his home and took it to Mount Horeb to power the ventilator. Joe did the same when a tornado levelled Barneveld in June, 1984. That is in the very best tradition of Radio Amateurs; WELL DONE, JOE!

RESONANCE RESEARCH CORPORATION, near Baraboo, a manufacturer of large Tesla coils and other spectacular large-scale items, will probably not hold an open house this year. Many Radio Amateurs from all over Wisconsin and nearby

Madison Beginners' Classes Scheduled

If you are not now an Amateur Radio operator, but would like to become one, and if you are in south-central Wisconsin, here's your chance. The Four Lakes Amateur Radio Club, of Madison, is sponsoring Novice license classes, beginning Wednesday, September 13, 1989. Classes will be held at Madison Fire Station #2, at 421 Grand Canyon Drive. You'll learn basic electronic theory and International Morse Code. No previous experience is necessary, and, in ten weeks, you'll be ready for your Novice license test. A nominal fee is charged for instructional material. For more information, call Joel Kupferberg (N9CPW) at 608/271-1130, or Richard Swaback (N9HFM) at 608/832-6242.

areas and others interested in those devices have attended the open houses the past two years. D.C. Cox, owner of RRC, will make a final decision about an open house soon, and we'll let you know in our October issue of BSSS.

PARTICIPATING CLUBS: It is very important that we receive your club's information for publication here in BSSS on time. Please make every effort to have the information in the mail to me five days after the meeting; in no case should it be sent to me any later than seven days after the meeting.

It's a disservice to our staff and to our readers when minutes are received late. Here's why: your club's information has absolute priority for publication. We cannot put any other material on your club's page until we receive your club's information, type it up, and see how much space it requires. Then, we have to find suitable material to fill the extra space. That material requires headlines, and we sometimes have to wait several days for headlines to be typeset at the local newspaper. That forces us to be late in finishing the paper and mailing it; everyone gets their paper late. Please be on time! -K9ZZ



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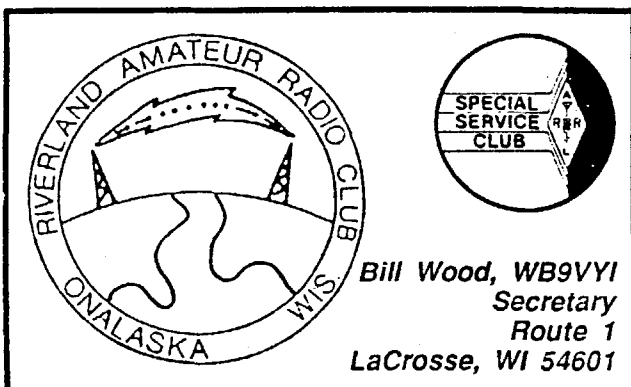
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Bill Wood, WB9VYI
Secretary
Route 1
LaCrosse, WI 54601

Greetings.

The regular monthly meeting of the Riverland Amateur Radio Club was called to order at 7:30 p.m. on August 1, by our president, Dick Low.

The minutes of our last meeting were then called for and read. Then, with the exception of the two following corrections, the minutes were approved.

1. Steve Pavela's call letters are KA9-TSW, not KA9TSN. Sorry about that, Steve.

2. Our last meeting contained quite a lengthy discussion pertaining to the use of voice IDs via the repeater's computer, and their contents, the focus of which was what kind of messages do we want on the air. Some were against the types of messages sent so far, while others want this continued. The general consensus seemed to be to continue experimenting and explore the repeater's capabilities.

Next, the treasurer's report was read and accepted.

Dick reported on the communications between the club and WXOW-TV; it seems the necessary steps are being taken, and all is well.

Van gave a report on the repeater, along with telling us about a spurious signal out there that has been giving us a hard time for a while, and suggested a possible fox hunt, thinking it is a television antenna amplifier that goes into self-oscillation.

Curt then told us of some probable up and coming changes to be made concerning emergency numbers like dialing direct for 911, etc., and will make up new control sheets to be passed out when the changes will be made.

Discussion was also had as to open or closed repeater, and the autopatch capabilities being made available to non-members or not.

Charlie thanked the club for the lifetime membership, and mentioned our constitution needs an amendment if we want to be doing things such as this. A motion then was made, seconded, and carried that a majority rule of those present could grant a lifetime membership.

Liability insurance for the antennas and repeater was then discussed, and mention was made that the subject would be studied further.

Scott then gave a Field Day report, and things looked pretty good for us. Overall, the event was very successful; plenty of help, points, etc., etc.

Call for adjournment, and all were in favor.

For our program this evening, "Nook" introduced Hans Smedstuen, 7P8EG, his friend from Lesotho. Hans addressed our group in an informal manner, and encouraged a question and answer session. Hans answers a radio call stating he is from the Kingdom of Lesotho, which is in the mountains of South Africa. This kingdom is about one-third or one-quarter the size of the State of Wisconsin. Lesotho has its own government, and is the highest country in the world, according to the Guinness Book of World Records. Only one class of license is offered, with four hundred watts maximum power. There are fifteen or sixteen licensed, but only about five are active. (This UK license, by the way, is no-code). If you'd like to work Hans, contact "Nook" for a schedule, or fish for him on

weekends. He'll be listening around 7.159, and transmitting on probably 7.065 SSB.

MEMBERS AND GUESTS PRESENT

Hugh Barker	KA0EJZ
Karl Simonson	N0BBW
Glenn W. Whitlock	K9CUT
Bruce Bjerstedt	W9QHN
Al Skwartz	KE9PL
George Kroner	WD9GCR
Walter Altus	KA9ETH
John Jorenby	KA9UUK
Charlie Burch	KB9DER
Larry Kapp	7P8EG
Hans Smedstuen	K9EGO
Nook Bentzen	N9DBK
Jim Brooker	W4ST
Karl L. Olberg	KA9FOZ
Greg A. Miller	K9LEC
Dallas Miller	KA9FOX
Scott Neader	W0JDC
Art Osborn	WF9T
Arby Boomer	N9IGS
Tom Speropulous	KA9YPF
Curt Phelps	N9FDE
Bill Kleinschmidt	W9KTD
Jack Yoshizumi	N9ETD
Craig Goldbeck	K9EGQ
Bill Winder	KA9UJL
Jule Kish	KA9EZR
Bob Selbrede	WB9VYI
Bill Wood	WA9FIO
Van Elston	K9LBX
Jim Burcum	KV9U
Rick Williams	W9DM
Wid Johnson	XYL-W9DM
Maty Johnson	WB9BJQ
Tom O'Brien	N19V
Gary L. Webb	

Respectfully submitted:

Bill Wood, Sec./Treas., RARC

Morse Telegraph Club News

SPECIAL EVENTS STATION AD9E: Special Event Station AD9E, operated at the Mid-Continent Railway Museum, North Freedom, WI on May 27 and 28, was not particularly productive compared to other years. We had planned to do a lot of operating on the upper bands, but, due to the DX contest that weekend, we rather got left in the dust. Most contacts were made on 40 meters.

One QSO turned out to be rather interesting for this writer. A contact in Aurora, Illinois, mentioned that his secretary married a fellow from North Freedom. He mentioned her last name, so, following up with a bit of inquiry, I established the fact that I knew the lady and have not seen her for 52 years. We have been arranging a get-together as a result.

Participating in the special event station's operation were, of course, Bill Dunbar, AD9E (the Morse Telegraph Club's president and editor of MTC's newspaper "Dots and Dashes"), Sid Vaughn, N0-DJD (Secretary/Treasurer of the "MW" MTC Chapter), Jim Romelfanger, K9ZZ (Editor of BSSS), Fred Becker, W9KKM, and Dave Rece, N09M, Stoughton, WI.

All had a good time and are looking forward to next year, hopefully on a non-contest date - if such a thing is possible any-more!!!!

WISCONSIN DELLS RAILROAD DEPOT DEDICATION: June 10th saw the opening of the new railroad station at Wisconsin Dells, with a huge crowd in attendance. The station was built through community cooperation and donations, headed up by Oliver Reese, prominent photographer of the Dells. The station very closely approximates the old station, except it is considerably smaller. The old station was wiped out several years ago by a coal train, which derailed directly in front of it.

Working telegraph equipment has been installed in the depot, and demonstrations were given during the event. Fred Becker, W9-KKM, and myself handled the traffic between the depot and a tent set up in the parking lot. We were really surprised at the interest shown. We advertised "Send a FREE telegram anywhere in the US that can be reached by phone." Believe me, the response was overwhelming. We handled about 200 wires before we shut down, and Fred was busy into the wee hours of the morning passing the traffic along to the nets. I think this was probably the most traffic either Fred or I ever handled in 40 years of Western Union and railroad work. It was fun. Thanks to those from the Morse Telegraph Club who dropped by and spelled us a bit on the key, and with all the paper work.

- Bob King, KA9GNY, Morse Telegraph Club
411 Lynn Avenue, Baraboo, WI 53913

At July Meeting

ARRL Board Favors No-Code License; League to Seek Allocation in 216-220 Band

The Board of Directors of the American Radio Relay League met July 21 and 22 in Windsor Locks, Connecticut, and agreed that a proposal recommending a codeless class of Amateur Radio license will be presented to the FCC in the form of a Petition for Rulemaking. After extensive discussion, nine of the League's directors voted in favor of the codeless license proposal, while six directors voted in opposition.

The petition to the FCC will incorporate the following elements:

- * The examination will consist of Element 2 and an expanded Element 3A having additional questions, including ones related to Morse code.

- * License examinations will be given through the VEC examination system.

- * To upgrade to Technician, the new licensee will pass a five word per minute Morse code test administered through the VEC system.

- * Call signs shall be assigned from the Group D call sign block.

- * Frequency privileges shall be 220 MHz and above, with output power limited to 250 watts.

- * The licensee shall not be the control operator of a repeater or auxiliary station.

While there was concern that there might be confusion with an unpopular FCC proposal in 1974 to create a new class of license called "Communicator", the Board felt this was the most descriptive name for the new license class. The ARRL proposal is similar to the abandoned FCC concept in name only.

In another important action, the Board adopted a policy to oppose any fees for Amateur Radio station and operator licenses that exceed either the actual cost of administration, or the fees charged for any other licenses used for non-profit purposes. It pledged to oppose any fees for license modifications or upgrades, except those used to reimburse VEs and VECs for their expenses, and to oppose fees for reciprocal permits or for RACES (Radio Amateur Civil Emergency Service), military recreation, or school club licenses. In the fight, the League will be using the Capitol Hill resources it developed in the effort to defend 220 to 222 MHz.

The Board directed counsel to initiate a rulemaking petition seeking a secondary allocation to the Amateur Radio Service in the 216 to 220 MHz band segment. This action should not have the effect of delaying or impeding an appeal of the earlier FCC decision reallocating 220 to 222 MHz to the land mobile service.

Counsel is also to pursue appropriate action to insure that due process rights are afforded Amateurs prior to imposition of operating restrictions in radio frequency interference cases.

To foster knowledge of the Amateur Service by the public, the Board directed preparation of a detailed plan for selection and use of public relations professionals.

To foster growth of the service, the Board took several actions. One urges the amateur community to take full advantage of the Shuttle Amateur Radio Experiment (SAREX), to bring Amateur Radio into classrooms. Another action calls for a committee to study the implementation of a nationwide course for amateur licensing in schools. A third would foster cooperation with the American Association for Retired People (AARP), building on last year's Project Suncoast Seniors.

An existing school amateur radio activity was endorsed by the Board.

The Publications Committee is to study getting ARRL books into more college bookstores.

League awards were conferred on:

Sister Alverna O. Laughlin, WA0SCJ (1988 Humanitarian Award),

Kevin Beikert, KB5AQV (1988 Hiram Percy Maxim Award),

Fred Cady, KE7X (1988 Herb S. Brier Instructor of the Year Award),

Phyllisan West, KA4FZI (Professional Amateur Radio Teacher of the Year Award).

On other League matters, the Board agreed on a joint ARRL/-CRRL (Canadian Radio Relay League) computer networking conference in London, Ontario, September 22, 1990.1

The 1991 ARRL National Convention was awarded to Saginaw, Michigan, August 23 through 25, 1991.

The Amateur's Code, which has guided amateurs since the twenties, was revised to update obsolete language.

Director election timetables were revised effective in 1990, and an elections appeals procedure was adopted.

The Board endorsed several recommendations of the ARRL National Emergency Response Committee (ANERCOM).

A revised bandplan for 902 to 928 MHz was adopted by ARRL.

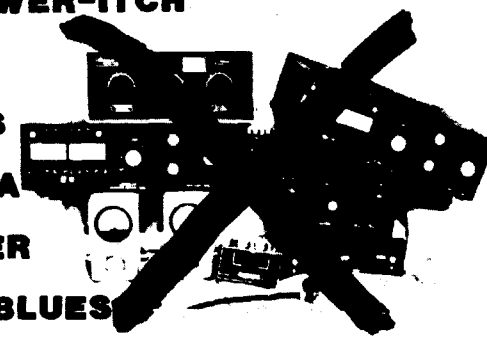
The Contest Advisory Committee was asked to develop a standard computer file format for contest logging.

- From ARRL Bulletin 40, 7/23/89, and ARRL Bulletin 42, 7/26/89

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Eau Claire Amateur Radio Club

Bob Fallis, W9BAR,
Secretary
1851 McKinley Road
Eau Claire, WI 54703

The next meeting of the Eau Claire Amateur Radio Club will be held on September 12th at 7:30 p.m. in the Eau Claire Parks and Recreation Building, 1300 First Avenue.

MINUTES OF THE AUGUST 8 MEETING

The meeting was called to order at 7:40 by Vice-President Mike McAlister, WD9DLM. Twenty members and two visitors were present. We started by having each person identify himself by giving his name and call sign.

Jerry Marx, NG9A, gave a preliminary report on our Hamfest. It will be a while before the final results are in, but it looks like we showed a profit. All reports indicate that most people were pleased the way the entire operation went, and much fun was had by all. He wished to thank everyone for their help and cooperation. A special thanks goes out to Noreen Harlson, XYL of KC9NN, and to Elizabeth Searing, N9EQR, for their work in the kitchen, and to Bill Jablonske, W9NNS, to Carl Searing, W9NW, and to Paul Bittner, W0AIH, for their much-appreciated efforts.

Next year's event will be held on July 14th. A trio of Jerry Marx, NG9A, Carl Searing, W9NW, and Don Alm, K9UXP, will co-chair the operation.

Jim Wiscow, KE9BC, has resigned from the board of directors. He and his family have moved, and he feels that it would be non-productive to keep his position. He has moved to where he can no longer access the K9UXP repeater. We will miss Jim and his cheery voice.

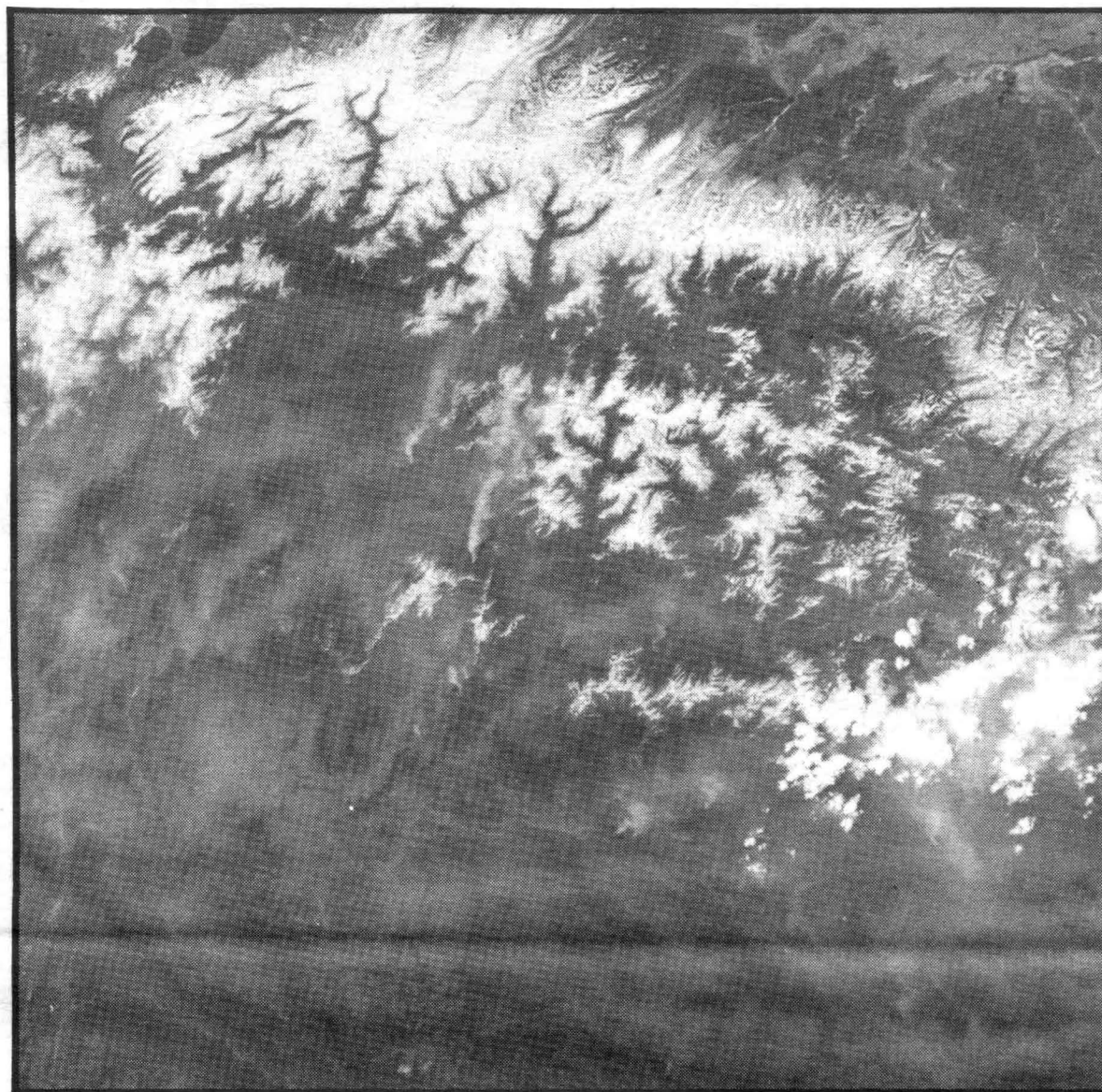
Lunch Committee for September: W9-MEO, W9NFJ.

The meeting was adjourned at 8:20 p.m.

Respectfully submitted:

Bob Fallis, W9BAR, Secretary

A View from Above



This Aero Linhof photograph, taken from the Shuttle Atlantis on May 8, 1989, shows a portion of mountains and lower valleys of the Himalayan mountain range filled with smoke. The sources of the smoke are individual fires burning subtropical rainforests and alpine slope forests. Several valleys are entirely covered with smoke

palls, and over fifty individual point sources of burning can be delineated from this frame. These forests are threatened by intensive agriculture and clearing processes. Similar smoke palls and fires have also been documented by astronauts in earlier Shuttle photography of South America, East Asia, and Africa. NASA photo

ACC and SGL Needed

Two key appointive ARRL Wisconsin Section positions are vacant: State Government Liaison and Affiliated Club Coordinator. There is not enough space to list all of the duties of these offices here; basically, the ACC works with ARRL-aff-

iliated clubs, and the SGL works with state government, particularly against any legislation adversely affecting Amateur Radio, and for legislation favorable to Amateur Radio. For full information, contact Section Manager Richard Regent, K9GDF, 5003 S. 26th St., Milwaukee, WI 53221, 414/282-0312.

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Your Life Story on Repeaters

At a back yard ham picnic, a man reminded me that we had met before. "You gave a talk at the Dallas ARC a couple years ago about security.... about not talking so much on the repeaters concerning our personal lives. I still remember the things you said."

Goodness. The talk was two years ago, and this fellow remembered what I said. That's better than a lot of preachers, whose sermons may not linger past the final hymn. "Maybe you ought to write an article for QST," he continued. Not a bad idea.

I have spent a major portion of my adult life as a U.S. Treasury agent, a CIA agent, and a writer and lecturer to citizen and police groups on the subject of security. I am more sensitive than most about locking my car and my house, and watching what I say concerning my personal comings and goings. While you may never share my total outlook, some of my observations should cause you to stop and think about some of the things you say on your local repeater.

Because repeater activity is usually confined to talking to the same friends - to the point that we recognize each others' voices - we tend to forget how many eavesdroppers there are. With all the scanners, portable radios that tune the VHF bands, ham rigs sold at flea markets, etc., there is a vast audience out there for your casual remarks. Couple that with the fact that you are listed in the Callbook, and possibly in a local ham directory, and you are inviting problems if you talk indiscriminately.

I let my ham license expire when I was in the CIA. Getting on the air and talking about my work was not part of their master plan for me. When I returned to civilian life in Dallas, I started studying for my ticket and bought a 2-meter rig. This was my first exposure to modern ham repeaters. I couldn't believe what I heard.

I made some profiles of people and families I heard on the repeaters and phone patches. I learned the names, addresses and phone numbers of the husbands' and wives' employers, their home addresses, the names and ages and the schools attended by their children. Also divulged were long lists of personal possessions, their vacation plans (with dates and places), the nights they would be out for dinner or a show, and even when they would return home. Some folks even told who was left at home (elderly parent, child, baby sitter), and where they left the spare key to the house. On and on it went.

Also heard were discussions of what kinds of medications people were taking, the kind of booze they drank, and the general status of marriages.... "love you a bunch," or the irate XYL who answered the phone patch call with, "You've been talking to Mary Jane!" "How'd you know?" "Never mind how I know." "Can't we talk about this later?"

Is any of this the business of a stranger? Would you go on the local AM radio station and talk about these personal matters? It's little wonder that you hear so many hams remark, "Well, I don't talk on the repeater much, but I listen a lot." I should think so. It's incredible what you hear.

"Well, I'm just about to get on the plane. See you in a week. KH6IO clear." Each time I hear that coming into a repeater from the airport, I cringe. Anyone listening knows you have gone on a trip and won't be back for a week. I don't have to draw a picture for you to understand the implications of the wrong person having that information.

I make it a practice never to talk about a trip as I leave town. Anyone who needs to know that you are leaving already knows.

Every city seems to have a bachelor who asks directions over the phone patch for every new YL he is dating. "It's apartment 212, upstairs on the right. My blue 280Z is parked just under my bedroom window." Most likely, W5LOVER is trying to impress everyone on the repeater that he has a new girlfriend (any girlfriend). I'm sure she would be upset if she realized he had just broadcast her location to all those listening. And now that Touchtone™ decoders are common, it's easy to get the phone number, too. Bad news.

Some things overheard recently on a local phone patch were: "If I go out before you get here, I'll leave the house open," and a guy talking on the patch to his YL, around midnight, both agreeing that she will spend the night alone at her place. The next day the same guy was talking with her on the patch, arranging for her to spend the night at his place. Wouldn't she be surprised to come the next morning and find her apartment ransacked? I wouldn't.

Many times we use a repeater when direct communications would do the job. I make it a practice to use a portable transceiver on low power simplex whenever I am giving final directions to my place. If you must talk about your personal life, at least limit the audience as much as you can. And don't do your fellow hams a disservice by talking to third parties about your friend's plans for evening outings or vacations.

Earlier, I mentioned Callbook listings and local ham directories. Think about listing a "mailing address" with the Callbook and the FCC that is different from your home address. It's not easy for some to do this, but it seems worthwhile.

You may think I'm being unrealistic and there's little left for you to talk about. Not really. Simply use common sense. Ask yourself, "Is this something I want a complete stranger to hear?"

The concept of security is harder to sell than a 75 meter rhombic to an aeronautical mobile operator. A majority of customers for security products has already been victimized. Don't assume that it always happens to other people, or wait until something happens to you before you become conscious of your own security. Remember: our broadcasts don't have commercials. You'd be surprised what a crowd that can draw. Think before you punch that mike button. Someone may just be waiting for you to supply that last piece of the puzzle.

- Richard Rhodes, KH6IO,
in the

Amateur Radio News Service Bulletin

The Hams' Great March

Radio amateurs have marched to protest the FCC action that resulted in the reallocation of 220 - 222 MHz to commercial interests, but the result of the July 9 protests was a mixed bag. Since protest activities, such as marching on federal buildings, is not something that hams are accustomed to doing, organizing such an activity, especially on a nationwide scale, had hit and miss results.

Perhaps the biggest success story was in Omaha, Nebraska, where more than 50 people turned out for the "Hams Great March to Save 220". John Gebuhr, WBØ-CMC, notes that all of the media - including radio, television, and print - were there to cover the Omaha protest march, and everyone involved felt a commitment

to the activity.

In Cincinnati, Paul Oldaker, NS8I, reported that his city's march was also a relative success, again with about 50 participants and some media coverage. Chicago saw about twenty hams and other supporters showing up, but very limited press coverage. It appears that the Chicago press corps is much more hardened to protests. Nevertheless, the hams who showed up were very upbeat, stayed the entire three hours, and have decided to meet again to share ideas on how to further the cause. Creating that kind of unity was one of the goals of the marches.

The biggest busts were in Los Angeles and San Francisco. According to Steve Godwin, KD6ZZ, Los Angeles began its preparations only a few days prior to the

march. As a result, it never did really get off the ground. In San Francisco, the problems were political. According to Lew Jenkins, N6VV, some 5,000 hams were prepared to march, but all came from outside the San Francisco city limits. San Francisco has an ordinance that says permits to march in town can be held only by San Francisco residents, and due to the alleged intervention by the most powerful amateur radio club in the area, no resident could be found who could file for the permit; the march was called off at the last minute.

It is likely that other "Great Marches" were held in other cities, but as of the time this report is being put together, those mentioned were the only ones reported.

- Art Reis, K9XI, 220 Notes
Editor in The Westlink Report

The Communicator

News of Greater Taylor County Area Amateur Radio Events and Activities

Mike Schoenfuss, N9GHZ, Editor, P.O. Box 401, Abbotsford, WI 54405 • Phone (715) 223-3996

MONTHLY CLUB MEETING - TAYLOR COUNTY AMATEUR RADIO CLUB

Thursday, September 14. Location: Emergency Government meeting room, basement of the sheriff's annex to the Taylor County Courthouse, corner of 2nd and Ogden Streets, Medford, Wisconsin. The meeting starts at 7 p.m. SHARP!

AGENDA AND PROGRAM FOR SEPTEMBER MEETING

A videotape, whose subject has not yet been finalized at this time, will be shown.

CLUB NEWS

Eight members were in attendance at the August meeting. There was no treasurer's report available.

The membership present passed a resolution to replace the present Cushcraft Ringo Ranger antenna on the Midway Telephone Company tower with a Hustler G7-144 antenna. This is the future site of the N9GHZ-1 (MED) packet radio node (digi-peater). Some discussion followed as to the disposition of the old antenna. N9GHZ will make some arrangements to have the tower work done. It is hoped that we can utilize the existing feedline. W9LEE will be working on coming up with some gamma matches.

Several pieces of correspondence have been received and were read at the meeting.

A letter was received from the Dept. of the Air Force, Headquarters Electronic Systems Division (AFSC), Hanscom Air Force Base, Massachusetts, regarding the effect of their proposed Ground Wave Emergency Network tower and node in Taylor County on Amateur Radio operations. Their reply was that the GWEN tower will in no way affect the operation of Amateur Radio operators in Taylor County. An inquiry was also made as to the possible availability of space on their proposed 299-foot tower for Amateur Radio purposes. Their reply was no, since the tower is the antenna itself, and is electrically alive.

N9GHZ received a letter from the ARRL Foundation, regarding his recent application for a grant to offset costs of the club's recent and extensive library materials donation project. The application is still on file, and awaiting review by their Screening Committee. Normally, they would have made a decision by this time,

however, they have recently experienced the resignation of their Foundation treasurer, and all disbursement programs are temporarily on "hold" until appointment of a new treasurer.

N9GHZ also recently received an Amateur Radio news release from the ARRL, the text of which is as follows:

"Scouts on the Air with World Scout Jamboree on the Air. Boy and Girl Scouts and Amateur Radio operators the world over will talk to each other via radio waves during Jamboree-on-the-Air (JOTA). Hams and Scouts (licensed or as visitors at ham radio stations) exchange their names, locations, Scout ranks, and other hobbies. Many become radio and pen pals afterwards. Sponsored by the World Scout Bureau, Geneva, Switzerland, JOTA runs from midnight Friday through midnight Sunday the weekend of October 21-22. Participants use any authorized Amateur Radio frequencies, but World Scout calling frequencies (MHz) produce the most activity: Voice: 3.940, 7.290, 14.290, 21.360, 28.350, and Morse code: 3.590, 7.030, 14.070, 21.140, 28.190, plus the usual radioteletype, slow-scan, amateur television, and

computer packet-radio frequencies.

"Amateur operators or visitors call "CQ Jamboree" or answer stations doing so. Look for K2BSA, BSA HQ Amateur Radio station in Texas, and HB9S, World Scout HQ ham station. Hams can contact local Girl or Boy Scout councils (see the White Pages) to invite troops to their stations. Nonham Scouts, contact your council or the American Radio Relay League for the name of hams in your area who will participate.

"ARRL welcomes activity reports, including Scout unit number, number of participants, and photographs of youth radio activity, and forwards them to BSA HQ. Contact ARRL for special Amateur Radio/Scout brochures to give to nonham Scouts, and further details on participants' postcard-size BSA certificates."

Some discussion followed the reading of this letter, regarding the feasibility of the club, or at least some of its members, getting involved with JOTA this year. We should start making plans now, as there will be only 2 more club meetings before the weekend of JOTA.

TAYLOR COUNTY AMATEUR RADIO EMERGENCY SERVICE NEWS

- From Mike Schoenfuss, N9GHZ, Taylor/Clark County ARES Emergency Coordinator -

Don't forget to try to check into the weekly ARES net held Wednesdays at 8:30 p.m. on the Medford repeater (147.75/147.15). You're also encouraged to volunteer for net control duty for the net.

REPEATER NEWS: 147.75/15 MEDFORD REPEATER

The bill for the tower work has not yet been received.

WA9ZCO, with some help from N9GHZ, removed the Swan transceiver that was temporarily being used for the repeater transmitter, and reinstalled the original VHF Engineering transmitter, which had been gone over previously. The audio level of the receiver and the CW IDer were also readjusted (the IDer audio had previously been so high that it had actually been 'drowning out' the receiver audio.)

A thermostatically-controlled cooling fan and additional AC outlets have been installed in the tower shed by either Northcentral Technical College or Taylor

County.

The courtesy tone beeper board and VHF receiver front-end preselector/filter/preamp have been received from Spectrum Communications. They are now in W9LEE's possession, and will be installed at the earliest possible opportunity. W9LEE also has the new repeater rack in his possession, and will be working on that, as time permits. W9LEE reports that it has two blowers already installed in it.

REPEATER NEWS: 144.67/145.27 DORCHESTER REPEATER

A reminder to all that the RAIN Dial-Up Service weekly Amateur Radio news bulletin can be heard on this repeater every Wednesday evening. The starting time for the bulletin transmission was just recently changed to 8 p.m. (it was previously heard AFTER the Taylor County ARES Net, which starts at 8:30 p.m. on the 147.75/15 Medford repeater).

CONGRATULATIONS TO....

Ernie (WD9FWP) and Shirley Mehner of Dorchester, on the occasion of their 25th (silver) wedding anniversary on July 25th.

(Continued on page 11)

Field Day 1989

OSHKOSH AMATEUR RADIO CLUB



In the photo above, Steve Whitton, KD9WQ, and Randy Foth, WJ9I, work on an antenna and tower at the Oshkosh Amateur Radio Club's Field Day site at the Experimental Aircraft Association campgrounds, south of Oshkosh. - Photo by Carl Plotz, WB9JSW

The Oshkosh Amateur Radio Club, operating from the Experimental Aircraft Association campgrounds south of Oshkosh, tallied a very nice Field Day score this year, with 288 CW contacts and 517 on SSB, with a final claimed score of 2,586. The club's effort was not without the universal presence of Murphy; after a few hours, the operators became aware they weren't making the QSO rate on SSB they should. Either the mike was bad or the radio had problems on voice. They switched to CW; after a short time, the speaker quit! The backup rig had no mike, so it was CW until another rig could be brought after midnight. The above is from John Kaiser, KD9BC, in the "Intercom", the Oshkosh ARC newsletter, where John says, "Thanks to KD9WQ, KB9AIT, WB9-ZHN, WJ9I, KB9CVB, N6-BCY, WD9IWL, W9JIF, George, and especially N9GDY for the use of his generator. There's another photo of the Oshkosh ARC Field Day on page 15 of this issue of Badger State Smoke Signals.

ARRL and Handi-Hams Promoted in Wisconsin

The ARRL, the Handi-Hams, and Morse code all got a boost at the first-ever Wisconsin Statewide Conference on Augmentative/Alternative Communication.

Debbie and Tom King (N9GLG and WF9I) organized this event from a federal grant they had written. They also manned a special ARRL/Handi-Hams exhibit they set up in the exhibitors' hall at the conference, which was held at the Holiday Inn Convention Center in Stevens Point, Wisconsin. The conference was attended by more than 150 professionals from all over the country.

Debbie, N9GLG, who served as project director for the event, said that nearly all participants took ARRL and Handi-Ham literature, and watched the latest Handi-Hams videotape, which ran continuously throughout the two-day event. Tom, WF9I, conducted a special presentation on rehabilitation applications of Morse code.

Many of the other presenters and vendors of specialized communication rehabilitation equipment said they never realized how important Morse code and Amateur Radio could be in enhancing a person's communication abilities. Many asked if they could have extra handouts to distribute at other conferences they attend throughout the world.

Everyone is looking forward to next year's conference. Tom and Debbie can use some helpers to talk with the many interested professionals about the role that Amateur Radio can play as a rehabilitation tool. Contact them if you would like to help out next June!

- Dr. Tom King, WF9I

(Dr. King is employed by the Department of Communication Disorders at the University of Wisconsin - Eau Claire. - Editor)

BSSS Club Deal

Badger State Smoke Signals can serve your club's members as your club's newspaper. Your club's news will be published for you monthly, along with other news - and photos - which you submit. Here are the rates: All members of club of less than 50 members: \$5.40 per member per year; all members of club of 50 or more members: \$4.80 per member per year. These plans include up to 15% additional complimentary mailings at NO added cost. 10 or more subscriptions from members of a club are \$5.60 per member per year. Non-Wisconsin clubs are welcome. We offer special rates for Hamfest ads. For more info, contact Ken Ebner, K9EN, 822 Wauona Tr., Portage, WI 53901, 608/742-3560.

The Communicator

(Continued from page 10)

They celebrated with a gathering of family and friends on Saturday, July 29th.

Gordie (WD9ASX) and Loverna Thielke of Chelsea, on the occasion of their 50th (golden) wedding anniversary on May 6th. They celebrated with a gathering of family and friends at their home on Wednesday, August 2nd.

Dean Young, KA9SMQ, of Colby, a recent graduate of Colby High School, who was recently presented with the Colby Lioness Club's first annual scholarship. The \$500 grant will help Dean pursue a major in physical therapy at UW-La Crosse this fall. The selection decision was based on

merit, including grades and extracurricular activities, quality of the application, and individual potential. Dean is the son of Louis (KA9UXN) and Joan Young. Dean's brother, Scott, is licensed as N9FZS.

QuicKit™ G5RV & All-Band Loop Kits

Fast & Easy to Build • Failsafe visual instructions • No measuring or cutting • Everything included • Finish antenna in minutes Quality Components • Presoldered Coax Fittings • Kinkproof Superflex wire • Fully insulated, wx sealed, no-corrode, low noise design Fastest Antennas in the West	• Full Size G5RV dipole coverage 80-10 \$34.95 • Half Size G5RV dipole coverage 40-10 \$24.95 • Quarter Size G5RV dipole coverage 20-10 \$19.95 • Marconi Adapter kit \$ 4.95 • QuickLoops: quad, diamond, delta, horiz. vert. sloping • 160-10m (570') \$99.95 • 80-10m (290') \$79.95 • 40-10m (142') \$64.95 • 200' Dacron 250# line \$11.95
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Antennas West
 (801) 373-8425 Box 50062-SS, Provo, UT 84605

The Second Meeting of the Ten-Ten Gang

By Richard Regent, K9GDF
5003 South 26th Street, Milwaukee, WI 53221

Many years ago, a group of 10-meter enthusiasts decided to form a club, and to give themselves membership numbers. They chose their club name as the "10-10 International Nets" to represent their 10-meter Amateur Radio QSOs at the regular times and frequencies. Members "chase paper," their words for certificate hunting, by confirming contacts and collecting each others' numbers. At the present time, there are about 58,000 members of this growing group, who not only exchange calls and pleasantries, but also their unique 10-10 numbers.

The Ten-Ten International Net's second biennial convention was held at the Grand Hotel in Milwaukee on August 11 through 13, 1989. Planning for the event began a year and a half ago by Milwaukee member Joe Williams, WA9TSG, and the host Milwaukee Chapter Convention Committee, consisting of Henry Heitt, WD9FCQ, Sturtevant, WI; Duane Criel, NX9H, South Milwaukee; Richard Schlatterer, KA9MTY, Brown Deer, WI; George Philbert, KA9MXM, Milwaukee; Jerald Heien, N9AVY, Wonder Lake, IL; and N9HWB. Even Milwaukee Mayor John O. Norquist issued a Proclamation to set aside the three days as Amateur Radio Days throughout the entire City of Milwaukee.

On the opening day of the event, the MAARS 145.13 local repeater group gave mobiles directions to the convention hotel. Ten-Ten members at two transceivers located in the hotel lobby also gave visitors guidance, of course on 10 meters. The parking lot soon filled with autos sporting Ham call license plates from all ten call areas. Members came from as far as Alaska, with visitor RA6-CA from Russia making the longest trip.

Forums were held in the East Grand Ballroom throughout the convention. Among the topics were: DXing on Ten Meters, by Michael Davidson, KC5CP Houston, TX; Paper Chasing, by KB8-CHA and James Sullivan, WA4QZU, Owensboro, KY; Codeless Licensing, by American Radio Relay League Executive Vice-President (and Editor of QST) Dave Sumner, K1ZZ, Coventry, CT; Spectrum Management, by Mr. Hegge; Packet on Ten Meters, by Richard Perdue, KA0VXO, St. Joseph, MO; AMTOR, by Thomas Wrensch, N9HR, Oconomowoc, WI; Ten-Ten, by International President Norman Lefcourt, W6IRT, North Hollywood, CA; and Antennas, by Walter Greene, WA9YRL, Belvidere, IL.

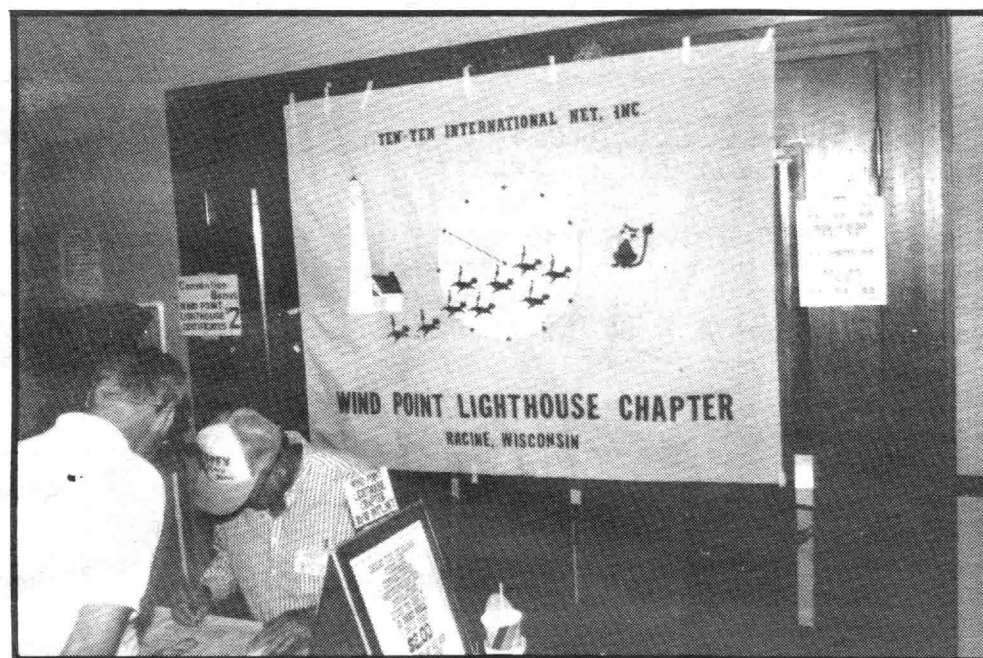
Non-Ham convention activities were highlighted by a bus tour of Milwaukee, which included the Mitchell Horticultural Domes, the Pabst Mansion, and a fancy restaurant.

Amateur license exams were given to 25 candidates by several skilled Volunteer Examiners in the Executive Conference Center.

A flea market was held in the New Orleans Ballroom, with vendors and sellers. Some of them were: AEA, ARRL, Mr. Nicad, MRAC, 6.91 Repeater Club, computers, electronic parts, personalized caps, and a number of individuals.

The banquet, sold out at 200, was held in the Center and North New Orleans Ballrooms. Waiters and waitresses served delicious salad, rolls, vegetable soup, green beans, baked potato, prime rib, ice-cream cake, and coffee. The meal was enjoyable, and mixed with relaxed conversations. Many stimulating talks were given by Ten-Ten Directors, officers and members. Dave Sumner, K1ZZ, skillfully guided our thoughts with word imagery, from the beginnings of the ARRL with Maxim and Tuska, to the League's current 75th Anniversary celebration. The Ten-Ten issued special number 57575 to League station W1AW for the anniversary.

Although door prizes were given out every half hour during the three-day event, excitement peaked as the prize finale began after the banquet. Tickets were randomly picked, NX9H called names of countless winners of door prizes: world maps, radio interference books, subscriptions for one year and life memberships in 10-10 International, 10-10 rosters, ARRL Handbook, Operating Manual, Repeater Directory, Antenna Book, and other items. Final-



The Wind Point Lighthouse Chapter of Ten-Ten International, of Racine, WI, and the Milwaukee Radio Amateurs' Club, Inc. had displays at the convention, as seen in the two photos above.



A speaker delivers his talk at one of the forums at the Ten-Ten Convention.
- Photos by Ken Ebnetter, K9EN

ly, Phil Rebenburg, K9CI, won an AEA 10-meter handheld transceiver, and two others won 10-meter base station transceivers.

Tables were being cleared as the last few friends lingered on chatting, shaking hands, and reluctantly leaving on their homeward journeys; thoughts turned toward getting together again at the next convention.

Worst Case RFI

By John W. Frank, WB9TQG
P.O. Box 5113
Madison, WI 53705

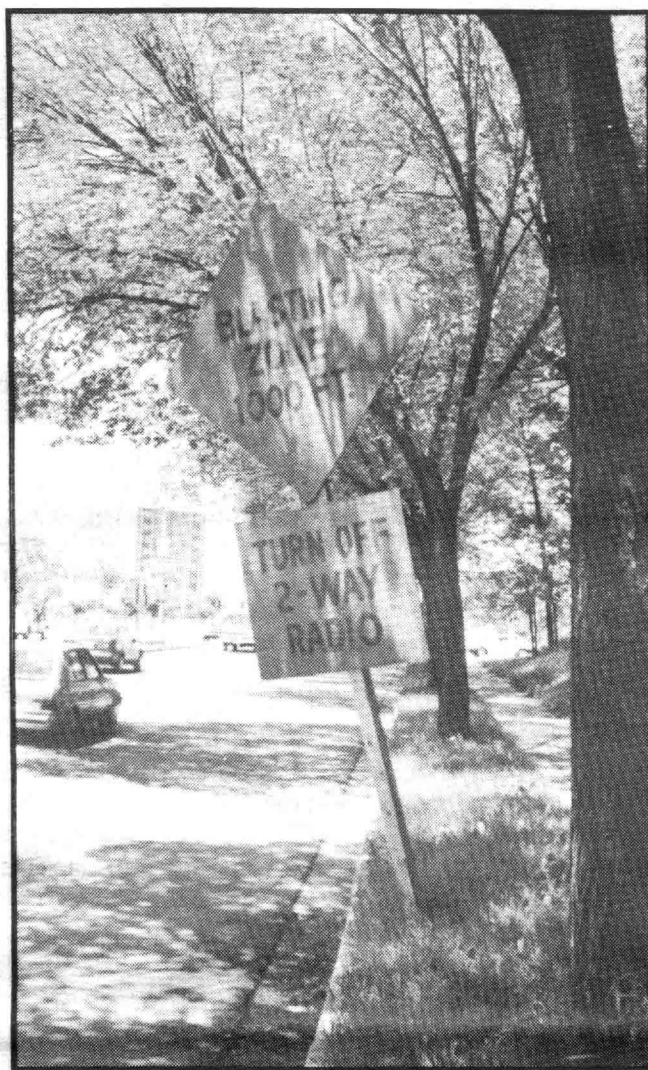
At least once each summer, I see a sign along the road that says, "BLASTING ZONE - TURN OFF 2-WAY RADIO". Although the highway department employee I spoke to about these signs was very vague about the hows and whys of explosives, I gathered there was a possibility that an accidental explosion could occur if a nearby radio signal interfered with the electrical equipment used to set off the explosion.

I was not able to get any specific information about what frequencies and/or power levels could accidentally trigger an explosion. Nor was I able to find out what distance from the blasting zone would be considered safe from an RFI standpoint. The only recommendation the highway department was able to provide me with was that nobody should transmit in a blasting zone, and that the operators of any two-way radios should wait until they are completely clear of the blasting zone before transmitting.

My own feeling is that no QSO is worth the potential danger to life and property if an explosion were set off accidentally.

73,

John



This sign means what it says! Photo by John Frank, WB9TQG.

Awareness Day '89

The first annual Amateur Radio Public Awareness Day will be held September 16. To make the general public more aware of the existence, purposes, and benefits of Amateur Radio, clubs and American Radio Relay League Field Organization members will set up and operate public displays across the nation, in schools, libraries, town halls, parks, fairs, and anywhere else an imaginative group can think of.

Why September 16? It's a day when no other major Amateur Radio event is taking place. Schools are back in session. Clubs and Field Organization groups are always looking for a good kick-off for the fall season; now, they've got one! The weather is generally still good enough for outdoor exhibits at country fairs and town parks.

Start planning your public exhibit now. ARRL Headquarters can help. For tips on setting up your exhibit, check out the ARRL Special Events Communications Manual, available from ARRL HQ to section appointees at no charge; to others, for \$5.00, plus \$2.50 shipping/handling.

Upon request, HQ will also provide you with promotional brochures for distribution to the public at your booth.

Get psyched for Public Awareness Day '89! Badger State Smoke Signals would like to have a few photos of your club's or group's Awareness Day Display, too!

- Excerpted from The Section Leader, published by the ARRL

Wisconsin Scholarship Winners Named

The 1989 winners of the West Allis Radio Amateur Club Memorial Scholarships have been announced. Douglas K. Klee-mann, KA9LWN, of Shawano, and David C. Wright, WB9VOZ, of Wausau, were chosen by the Foundation for Amateur Radio to receive the two \$500 scholarships.

Douglas was a winner of one of the WARAC Emil Kumershek Memorial Scholarships in 1988. He will be a junior at Marquette University, where he is majoring in bio-chemistry. Eventually, he hopes to become a doctor, specializing in general practice. David is studying for an Associate Degree in Electronics at North Central Technical College.

These scholarships were sponsored by the West Allis Radio Amateur Club, Inc., as part of the club's ongoing Scholarship Program, and were administered by the Foundation for Amateur Radio (FAR). They were available to Wisconsin residents holding a Technician class or higher Amateur Radio license, and registered with a college, university, or technical school in the State of Wisconsin in a course leading to a

bachelor or associate degree.

In addition to the West Allis Radio Amateur Club Memorial Scholarships, the Foundation for Amateur Radio administers, without charge, the following:

John W. Gore Memorial Scholarship (\$1000)

Richard G. Chichester Memorial Scholarship (\$900)

Edwin S. Van Deusen Memorial Scholarship (\$750)

QCWA Memorial Scholarships (5 awards, \$750 each)

QCWA Leo Meyerson Family Living Scholarship (\$750)

QCWA Robert S. Cresap Memorial Scholarship (\$750)

Radio Club of America Scholarship (2 awards, \$500 each)

Edmund B. Redington Memorial Scholarship (\$500)

Young Ladies' Radio League Scholarship (\$750)

Amateur Radio News Service Scholarships (2 awards, \$600 each)

Columbia Amateur Radio Association Scholarship (\$750)

Baltimore Amateur Radio Club Schol-

arships (4 awards, \$1000 each)

Dade Radio Club Tropical Hamboree Scholarships (2 awards, \$1000 each)

Rose Ellen Bills Memorial Scholarship (\$2000)

Victor C. Clark Memorial Scholarship, sponsored by Vienna Wireless Society, (\$1000)

Frederick Amateur Radio Club Scholarship (\$1000)

10-10 International Net Scholarships (2 awards, \$750 each).

This year, none of the other scholarships went to Wisconsin Amateurs.

These scholarships were open to all Radio Amateurs meeting the qualifications and residence requirements of the various sponsors.

The Foundation for Amateur Radio is a non-profit organization representing fifty clubs in Maryland, the District of Columbia, and Northern Virginia. It is devoted exclusively to the scientific, literary, and educational pursuits that advance the purposes of the Amateur Radio Service.

Announcement of the 1990 awards will appear in the March, April, or May issues of Badger State Smoke Signals, and other Amateur Radio publications.

New Products

ICOM IC-3SAT 220 MHZ FM TRANSCEIVER

Icom does it again, with the new, super compact, streamlined IC-3SAT 220 MHz FM transceiver. The giant of mini-hand-holds weighs just 9.9 oz., and measures only 1.9"W x 4.0"H x 1.4"D with internal NiCd batteries. The transceiver fits easily anywhere - on belts, in shirt pockets or handbags! The IC-3SAT features:

- * Built-In NiCd Batteries - The IC-3SAT is equipped with rechargeable 7.2V, 300 mAH internal NiCd batteries. Never worry; when the internal batteries are exhausted, connect one of the optional battery packs or case on the bottom of the transceiver. The IC-3SAT operates continuously.

- * Tuning Control and Keyboard - Operating frequencies can be easily and immediately selected with the convenient built-in keyboard. The top panel tuning control can also be used for easy frequency changing.

- * 48 Memory Channels and One Call Channel - The IC-3SAT has 48 fully-programmable memory channels and one independent programmable call channel. Each memory and call channel stores operating frequencies and other information required for repeater operations.

- * DTMF Code Memory for Auto Dialing - Ideal for autopatching. The IC-3SAT includes 10 DTMF code memory channels. Each DTMF memory channel stores up to 15 digits for DTMF code. No need to punch in multi-digit phone numbers. Now, with the IC-3SAT, it's just a touch of a button!

- * Convenient Scan Functions - The efficient CPU in the IC-3SAT provides excellent scan functions, including full scan, programmed scan, memory scan, memory skip scan, and priority watch.

- * Built-In Clock - The IC-3SAT is equipped with a 24-hour system clock with timer function. Pre-program the transceiver to turn itself on and/or off. Perfect for scheduling QSOs and preserving battery power.

- * External DC Power Jack with Charging Capability - Even though the IC-3SAT is incredibly small, the transceiver can be connected to an external 6 - 16V power supply directly. This convenient feature also allows you to charge the internal NiCd batteries or an attached optional battery.

- * Five Watts Output Power - Utilizing a specially designed, ultra small, highly efficient power module, the IC-3SAT delivers a full five watts of output power at 13.7 VDC. Make yourself heard!

The super compact, heavy duty IC-3SAT has many options available, including the UT-49 DTMF Decoder Unit, UT-50 Tone Squelch Unit, and the UT-51 Programmable Tone Encoder Unit. Suggested retail price for the IC-3SAT is \$449.00.

- Icom news release

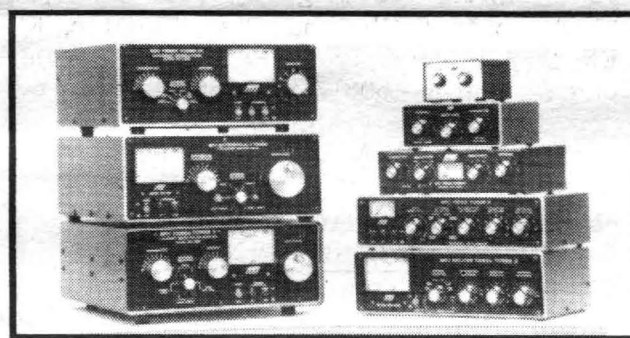


MFJ-815B LIGHTED CROSS-NEEDLE SWR/WATTMETER

MFJ Enterprises, Inc. announces the release of a new peak reading function in the MFJ-815B lighted Cross-Needle SWR/Wattmeter for only \$69.95.

The MFJ-815B lets you monitor SWR, forward and reflected power - all at a single glance. You can select from two power ranges for forward and reflected power (2000 forward and 500 watts reflected, or 200 watts forward and 50 watts reflected). It shows you SWR from 1:1 to 8:1.

The MFJ-815B covers 1.8 to 30 MHz with 10% accuracy. It comes with MFJ's full one year No Matter What™ guarantee. That means MFJ will repair or replace your MFJ-815B (at our option), no matter what happens to it for a full year. The meter light requires 12 VDC or 110 VAC with the MFJ-1312, \$12.95.



NEW PEAK AND AVERAGE CROSS-NEEDLE SWR/WATTMETER IN MFJ TUNER LINE

MFJ Enterprises, Inc. announces the release of a new peak and average reading Cross-Needle SWR/Wattmeter in four top-of-the-line MFJ tuners.

MFJ tuners with the new peak reading meter include the MFJ-949D Deluxe 300 Watt Tuner, the MFJ-962C 1.5 KW Tuner, the MFJ-986 3 KW Differential-T™ Tuner with roller inductor, and the MFJ-989C 3 KW Roller Inductor Tuner.

The Cross-Needle Meter in the MFJ-949D shows you forward/reflected power in 300/60 or 30/6 watt power ranges, and SWR from 1:1 to 8:1.

The Cross-Needle Meter in the MFJ-962C, MFJ-986, and MFJ-989C shows you forward/reflected power in 2000/500 or 200/50 watt ranges, and SWR from 1:1 to 8:1.

Push buttons let you select Hi or Low power ranges, meter lamp on or off, and peak or average power readings.

The meter circuit in the MFJ-962C, MFJ-986 and the MFJ-989C has been im-

proved. It now includes a new directional coupler that gives you more accurate readings over a wider frequency range.

MFJ-1269 "SAM" MORSE CODE TUTOR FOR IBM COMPATIBLES

MFJ Enterprises, Inc. announces the release of the new MFJ-1269 "SAM" Morse Code Tutor for only \$19.95.

It was written by a Master of Education and professional teacher to get your speed up fast so you put in less work for your new Ham license or upgrade.

You get random QSOs with screen blanking, just like in the FCC test. The instructions give you a sample FCC code test, so you'll know what to expect when the big day arrives. Timing analysis grades your progress, and shows you how many you've gotten right on each session.

A colorful "Jumbo" characters option makes your Morse Code classroom fun. (SAM also works with mono graphics.)

Set the "Stop Watch" option and copy code against the clock - a great way to find out how well you really know your code. You can set WPM or tone from the opening menu, or dynamically as code is being sent. This lets you increase your speed after warming up.

Unmatched sending practice flashes a character on the screen that you send using shift keys as a paddle - it times your sending and shows you what characters you sent correctly or incorrectly.

All this, plus everything the other code tutors give you: you can copy select or random characters, copy text files, pro-signs, send from keyboard, and more. The tutor has a Farnsworth option. The excellent manual includes a sample FCC test, "Q" signals, and common Morse abbreviations. On screen help with function key.

Don't put it off! Let SAM help you get the Ham license or upgrade you want.

For more information on the SAM Morse Code Tutor or the other MFJ products above, contact any MFJ dealer, or MFJ Enterprises, Inc., P.O. Box 494, Mississippi State, MS 39762, or call (601) 323-5869; Telex: 53 4590 MFJSTKV; FAX: (601) 323-6551, or order toll free at (800) 647-1800.

- MFJ Enterprises news releases



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WANTED: Used multi-mode 6-meter transceiver, cheap. FOR SALE: Santec HT-1200 2-meter HT, \$125.00. PDL II 11-meter quad, good for 10-meter conversion, \$70.00. Channel Master TV rotor, \$30.00. 17 foot light duty tower - you haul it. Rick Plouffe, S4110 Highway 12, Lot 2, Baraboo, WI 53913.

Send non-commercial ads to Ken Ebner, K9EN, 822 Wauona Tr., Portage WI 53901.



HERE and THERE

OFFICERS for the Northwoods Amateur Radio Club (NARC) for the coming year are: President, Bob Berger, WC9O; VicePresident, Diane Hamman, KA9BHK; Secretary, Lee Andreas, N9BDL; Treasurer, Mary Berger, NS9Q. (Thanks N9BDL)

:-----:

FCC ISSUED CALL SIGN UPDATE: The following is a list of most recently issued FCC call signs (August 1):

Dist	Group	Group	Group	Group
	A-Extra	B-Adv	C-Tech/ General	D-Novice

0	WV0J	KF0EH	N0KXB	KB0FAC
1	NY1A	KC1PV	N1GVQ	KA1UHJ
2	WR2W	KE2OQ	N2JTE	KB2IKI
3	NV3W	KD3OC	N3HJO	KA3VAK
4	AB4PR	KM4VZ	N4WMM	KC4LWT
5	AA5MY	KG5WW	N5OZJ	KB5KGD
6	AA6PT	KJ6YA	N6VYC	KC6FBI
7	AA7BI	KF7VQ	N7NHY	KB7IKE
8	WU8M	KF8AO	N8LDL	KB8HYR
9	WJ9W	KE9RQ	N9ITN	KB9DFG

GU	KH2K	AH2CE	KH2DX	WH2AMF
HI	**	AH6JV	NH6TY	WH6CEQ
AK	**	AL7LI	NL7SM	WL7BVL
USVI	NP2F	KP2BQ	NP2DH	WP2AGY
PR	**	KP4QF	WP4WE	WP4IMB

** indicates that all 2 x 1 call signs have been assigned in those areas.

- The ARRL Letter

:-----:

FIRST 20 ON 40: The DXCC Desk of the American Radio Relay League is happy to announce the recipients of the first twenty certificates for the newly created 40 Meter DXCC. Listed below is the certificate number, call sign, and total number of DXCC countries confirmed for each of the twenty. Duplicate certificate numbers have been assigned when two or more Amateurs have been credited with the same country totals.

Certificate Number	Call	Total
1	W4DR	330
2	W8AH	321
3	JA2BAY	318
4	G3KMA	310
5	K4DY	308
6	JA8DWR	307
7	JA1ELY	306
7	W9ZR	306
9	N4KG	305
10	JA2VPO	302
11	JA8EAT	301
11	SM0AJU	301
11	VK6HD	301
14	K1MM	299
15	DL1PM	297
16	K1MEM	295
17	JA1UQP	294

Ripon Amateur Injured in Fatal Crash

While driving home from a visit with an Amateur in Sheboygan on the afternoon of August 10, Kurt Silber, KB9MQ, and his wife, Ursula, of Ripon, were involved in a head-on collision with another auto which crossed the center line. Ursula and the passenger in the other car were killed in the crash. Kurt was rushed to St. Agnes Hospital in Fond du Lac, where he underwent emergency surgery for a lacerated liver, and doctors worked through the night, setting broken bones.

Kurt is an active packet radio operator, and is always willing lend a help-

ing hand to packet radio newcomers and oldtimers alike.

Those wishing to send cards and letters - and we hope there are many - may send them in care of Kurt's son, Ron Silber, 559 Jackson Street, Ripon, WI 54971.

- Steve Loeffler, WB9ZRE

The thoughts of our readers are with you, Kurt, in your tremendous loss. We pray for your rapid and complete recovery.

- K9ZZ

18	K5UR	293
19	K2TQC	292
20	W4VQ	291

W9ZR, with certificate number 7, is Randy Schaaf, of Oneida, Wisconsin.

- The ARRL Letter

:-----:

AN ADVERTISING SALESPERSON is needed by Badger State Smoke Signals. This isn't a full-time job; it's something to occupy some spare time. Certain expenses are paid, as is a small commission. If you're interested in giving BSSS a helping hand, contact Chairman Ken Ebnetter, K9-EN, 822 Wauona Trail, Portage, WI 53901, or call Ken at (608) 742-3560.

:-----:

AMATEURS ASSIST FCC FIELD OPS: When, in early June, the FCC Field Operations Bureau needed some known "targets" to test new direction finding gear, they called ARRL for help. ARRL provided a list of amateurs living near selected major cities.

Ultimately, the FCC was able to pinpoint stations quite accurately. Assisting were W6BF (Los Angeles), W5OVH (El Paso), W4MI (Memphis), KA0CDN and W0IJR (Denver), K0PCR (St. Louis), and K0GA (Minneapolis).

The tests were run on June 13, using state of the art gear by Zeta, using correlative interferometry techniques. The equipment, which is transportable, is able, with options, to DF anywhere between 1.5 and 1000 MHz. A bearing taken by just one unit can give an indication of location. Previous direction finding apparatus usually requires at least two cross bearings.

- The ARRL Letter

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Musical Instruments - Business Band

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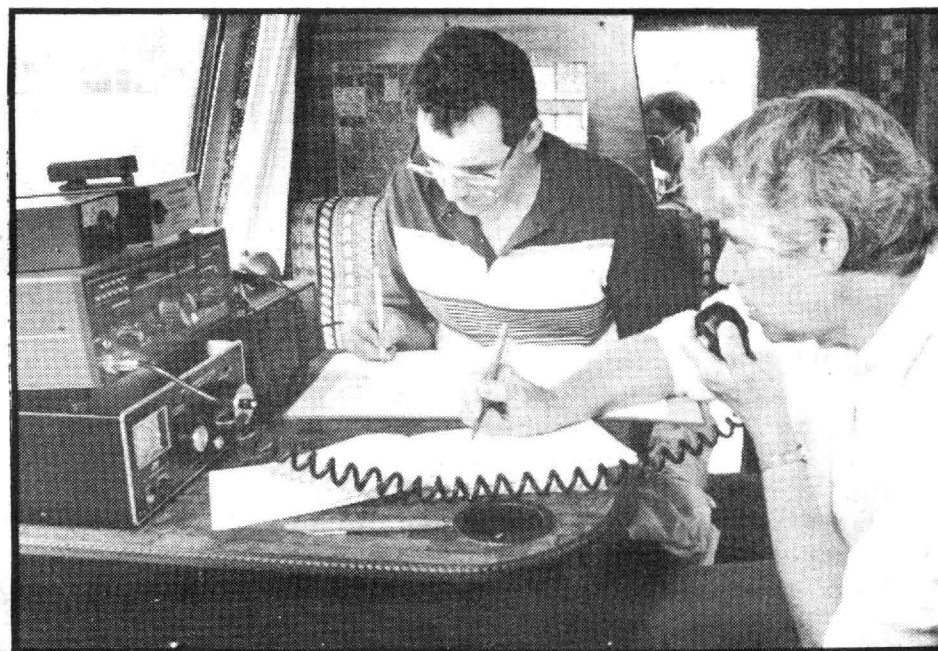
201 E. Walnut North Freedom, WI

Hours vary-call ahead-608/522-4366

Sorry, no TVs No Service Calls

HAMMING IT UP at the Field Day site of the Oshkosh Amateur Radio Club south of Oshkosh are, pictured at right, Gary Hoehne, KB9AIT, and Rosemary Pitz, N6BCY. One of the OARC Field Day antennas was a five wire V-Beam. The club netted a fine score, in spite of rig problems and extremely hot weather.

Thanks for the photo to Carl Plotz, WB9JSW, Oshkosh.





FCC: IGNORING THE FACTS

The procedural violations committed by the Federal Communications Commission in the 220 - 222 MHz reallocation proceeding are obvious and appalling. That the outcome was predetermined is clear.

More recently, the FCC denied filings by the American Radio Relay League, in opposition to loosening Part 15 standards for limited radiation devices, saying that the League's concerns were unfounded.

These two denials by the FCC, in the face of strong evidence provided by the ARRL, lead to the inescapable conclusion that the current Commission is anti-Amateur. In fact, no other conclusion is possible.

The 220 - 222 MHz issue is not yet settled. No further reconsideration to the reallocation issue will be voluntarily given by the FCC, but the ARRL is taking the case to a federal court. If the court gives fair consideration to the evidence presented by the League, including testimony presented at a Congressional fact-finding hearing in May, 1989, we still have a chance to have the FCC reverse its decision. Of course, the court may simply decline to hear the case. If that happens, we have lost 220 - 222 MHz, probably forever.

We note with more than casual interest that the FCC will be petitioned by the ARRL for an allocation in the 216 - 220 MHz area (See the story about the ARRL Board Meeting on page 7 of this issue). The Commission indicated during the Congressional hearing that it would consider an Amateur allocation in the 216 - 220 MHz area "at some future time," a rather non-committal statement at best. The League is to be commended for its decision to pursue the allocation now; let's see if the FCC is willing to back its remark at the hearing with action favoring Amateur Radio.

Of course, it would certainly make much more sense to simply give 220 - 222 MHz back to us, and give land mobile (read that United Parcel Service) an allocation between 216 - 220 MHz, and leave our band continuous and intact. But we ARE dealing with the government; it's rare to see them do something that actually makes sense.

The loss of 220 - 222 MHz is going to severely cripple the just-beginning development of high-speed packet links; links which are badly needed, because they take pressure off 2-meter packet LAN frequencies. In emergency situations, with high volumes of traffic, high-speed links are not a luxury; they are absolutely essential. FCC must take the credit - and the blame - for the damage they have done to the expanding packet system by removing those

critical two Megahertz from the Amateur Service. They bungled the entire procedure every step of the way. It appears that saving face at FCC took absolute priority over reality.

It will be interesting to see how FCC responds to the League's petition for the new allocation in the 216 - 220 MHz range. We will all be watching.

And, a footnote: Even if the federal court does order the FCC to reconsider its decision, and even if the FCC does reverse the reallocation, it is certain that it will be just a matter of time - and probably not much time at that - before the Commission is asked again to reallocate a portion of the 220 - 225 MHz band to land mobile, or to some other service. And, if the FCC does decide to reallocate part of 220 MHz again, it is certain that the FCC will be very, very careful to follow its proscribed procedures exactly, so there will be no possible way to question their methods, and the reallocation will stand.

More information about the 220 - 225 MHz band is on this page, and elsewhere in this issue of *Badger State Smoke Signals*.

A couple of issues ago, I mentioned our need for a decent way to set type for this paper. I thought a bit of clarification might be in order. Here are a few of the reasons we need - badly - a desktop publishing system.

Currently, we must have all our headlines, headings for clubs, ads, and some other items typeset at the local newspaper. This means I make as many as 30 stops a month - sometimes more - at that office. We sometimes wait two or three days for headlines. A recent ad which needed to be typeset took 10 days. If there is an error in a headline or an ad or whatever which I don't notice until I'm ready to paste an item in the paper, it doubles the wait for the headline, as it's back to the office, then wait for the corrected headline to be typeset.

I nearly fell many times last winter while going into the newspaper office to carry in work or pick up completed work.

Sometimes, a newer news item supersedes a story which has already been pasted up. Then, I have to tear the old item out - including the headline, for which I waited, and for which BSSS pays - then go to the office with the new headline and wait for it to be done. And, it makes me fume to be all set to paste up a story, and then find mistakes in headlines.

That's right - we pay for all that, of course, at \$18.00 per hour, with a \$12.00 minimum. And, since it is a newspaper, their own work must take priority over ours. So, we wait. And, that newspaper office is a very busy one, and I don't feel comfortable, adding to their already heavy workload. I'm more than a little surprised they haven't told me to leave them alone.

The word processor we currently use - this one - has no true boldface, and no italics. It has one typeface - this one - and no other proportional faces are made

Defying the FCC on 220

One of California's largest amateur repeater interties says that the club intends to go ahead with its disaster emergency radio network, even though this may mean defying the FCC. Rick Fearn, K6VE, is president of the Mountain Repeater Association, a group with members spread over 3 states, and operates repeaters that allow hams there to communicate with minimal hand-held radio gear.

According to a June 26 press release, Fearn noted that even though the FCC recently decided to take away a portion of the 220 MHz band which MRA deems as vital to the support of their interlinked repeaters, they have now decided to proceed with their plans nonetheless. Fearn noted that a recent earthquake prompted the group's decision, noting that the situation in California is such that it would not be prudent to delay implementation of the California/Arizona/Nevada interlink any longer.

When the FCC withdrew 220 - 222 MHz from the Amateur Radio Service for reassignment to land mobile use, the MRA temporarily shelved the interlink project. However, the decision to go ahead with it at this time is based on what the group sees as its mandate to serve the public necessity. The MRA maintains that its position of public service is uppermost and that a disaster communications network is more in line with the public's needs than is taking away a ham band to create additional commercial spectrum. Based on this, the group intends to resume the efforts to link the sites.

"We are not defying the law," noted Fearn, "because the law has not (yet) told us to get off the frequencies they want to take away. I am hoping that they (FCC) will understand what is at stake here, and realize that they have made a bad decision." K6VE added that the next step is definitely a court battle, but did not note whether he was referring to the action expected to be brought by the American Radio Relay League, or to litigation that his group might undertake to block the reallocation.

- Westlink Report

for this daisy wheel printer. It's also incredibly S L O W! It has served us fairly well, up to now, but it's time to move to something better.

Now, add to the above the fact that some folks are chronically late with their material to be printed (see page 5), plus my severe nerve problems (atypical anxiety among the several), and you can see we have a major problem that needs a fast solution. And, the BSSS treasury doesn't have the funds.

What to do? I don't have any ideas. Do our readers?



THE WISCONSIN PACKETEER

Wisconsin Amateur Packet Radio Association (WAPR)

c/o CARL SCHUMACHER, N9BYS
7740 EVERGREEN TERRACE
BURLINGTON, WI 53106

Steve Loeffler, WB9ZRE, Editor, 123 W. Oshkosh St., Ripon, WI 54971

New LANS

The Green Lake area LAN has been operational on 144.97 since August 1 with N9BKJ BBS supplying access to 145.01.

The Green Bay area LAN will soon become operational on 145.05 (see WAPR secretary's report in this issue for more info).

Yaesu 757GX Packet Problems

If you own a Yaesu 757GX and are using it for packet and/or AMTOR operations, a modification must be performed in order to keep it healthy. The high speed switching performed in packet and AMTOR operations has proven to be disastrous to the pin diode circuitry in the receive section. Contact Yaesu, USA for the modification to correct this problem in the 757GX. (Yaesu has corrected the problem in the newer 757GX-II).

from NAVMARCORPSMARS Region 4 "SPARKS"

August 12, 1989

Minutes of the meeting of the Wisconsin Amateur Packet Radio Association held on this date at the Rhinelander Hamfest, Rhinelander, Wisconsin. The meeting was called to order at 12:06 pm by Chairman Dan Bolander, WB9TYT. 10 Members and 9 guests were present and introduced themselves. The minutes of the last regular meeting were read and approved. No treasurer's report was available.

Director Wally Dieter, N9CLE, described the frustrations of Northern Wisconsin packeteers in desiring to help build up the packet network and link their area with other areas. He expressed his appreciation for WAPR's interest and support.

Director Bill Schroeder, W9ZBD, of Rhinelander, described plans to improve his PBBS system. He stated that the new Antigo node and planned Shawano node should provide a path between Rhinelander and Green Bay. A western route should be forthcoming with Bob Martin, KA9EOK, describing plans for a node at Park Falls. Bob already has a PBBS in operation there. A node reportedly exists at Chippewa Falls which would complete a path to the Twin Cities.

Director Joe Reed, N9JR, reported that Green Bay would be moving everything off of 145.01 to the LAN frequency 145.05. He is planning to establish a 223.44 MHz backbone from the Green Bay LAN to the Plymouth (SHE) nodes.

Dan announced that the packet operators in the Green Lake/Ripon area have established a LAN

on 144.97. He reported that a backbone link cannot be supported locally and that WAPR will consider that as one of the possible WAPR supported backbone nodes.

Dave Reinhart, KV9P, of Alpha, MI reported on their plans to establish a full duplex digital repeater on 6 meters FM. Their intention is to link the Upper and Lower Peninsulas of Michigan as well as Northern Wisconsin through this system. He asked about feelings on changing node aliases to use the two letter state abbreviation as the first two letters of the alias. The purpose is to have all nodes of each state grouped together in nodelists as a convenience to packet operators. Some nodes have already switched over to this format. Those present expressed no strong feelings either way on this subject.

Dan asked if the group present concurred with the WAPR concept of assisting with funding only backbone nodes. The consensus was affirmative.

The meeting was adjourned at 12:45 pm. One new member was signed up and two renewals were received.

Respectfully submitted,
Dave Knaus, WA9POV, Secretary

Treasurers report

Income	July	August
Dues	\$386.00	\$100.00
Interest	\$000.00	\$000.00
Total	\$386.00	\$386.00
Expenses		
Miscellaneous	\$12.55	\$0.00
Total	\$12.55	\$0.00
Net for month	\$373.45	\$100.00
Cash on hand	\$556.68	\$656.68
Bank balance	\$753.04	\$753.04
Net balance	\$1309.72	\$1409.72

Respectfully submitted August 14, 1989
Carl Schumacher, Treasurer - WAPR

JUST WHEN

YOU THOUGHT IT WAS SAFE TO GO IN THE WATER

Just when you had mastered the RLI and the MBL menu items.....Along came MSYS !!!!

Over the past several weeks you may have noted a dorsal fin moving back and forth on your screen when you *** CONNECT to your favorite BBS in Wisconsin. A strange new beacon identifies your old familiar BBS as being an "MSYS" station - - with several calls with SSIDs followed by a forward slant and a single letter. These identify as to which call-SSID to use if you want to connect to the main BBS, the "KA" node, or the TCP/IP port. You need not feel intimidated by all of this - - just connect to the BBS the same way you always have. Save the "call sign experimenting" for a later time.

If your BBS is normally a very busy one and you've had difficulty connecting in the past (remember how we all waited until immediately after the BBS beamed and then typed furiously to be the first one to get a connect request to the BBS lest we sit and watch *** BUSY answers because we weren't 60-80 wpm typists ?) you're in for a pleasant surprise. MSYS supports MULTI SIMULTANEOUS CONNECTS - as many at one time as the sysop has allowed in a program parameter. You get the impression you're the only person using the BBS, but in reality it may be serving several other BBS's, plus a half dozen other users AT THE SAME TIME !! No Mirrors !! - just a well written program (done in "C" by WA8BXN), a computer that no longer sits idle for 98% of a single connect, and a TNC that is in the KISS mode (allowing the computer to do the fancy foot-work).

Now comes the important part - - the signing onto the system as a "new user" - even if you've been a user of this same BBS for years. The MSYS program is the closest thing to artificial intelligence you'll see in ham radio in Wisconsin. The program uses this information for AUTOMATICALLY building its' forward files and figuring routes to get mail from "East Overshoe" to you. (This "artificial intelligence" is NOT the same entity you've accused your favorite sysop of having !!) Please answer ALL the questions especially the home BBS (where you expect to get most of your mail) and your ZIP !

Now the prompt - - - HOLY TOLEDO !! It looks like alphabet soup !! A B C D G H I J K L M N P R S T W V X U ? X * > (The best MBL could do was 17 of them !)

A - is the Abort command to the BBS - most commonly used to stop (abort) other actions such as Download, List, or Read.

B - is Bye - the same as you have used in the past. Use this to disconnect from the BBS.

C - (Now, here's something NEW !) - puts you in Conference mode, allowing you to talk with other users who are connected to the BBS. You'll be informed as to whether a conference is currently in progress, and, if not, would you like to start one (?).

The "C" command has a subset of user commands. Each starts with a CONTROL Z (Z).

ZA - (Add) Add a DX station to the spotting list.

ZB - (Bye) Disconnect from the system.

ZD - (Display) Display the DX spotting list.

ZP # - (Page) Ask a station on the BBS to join the conference. (The # is the channel of the person - see below)

ZR - (Return) Gets you out of conference back to the BBS.

ZU - (Users) Shows a list of current stations on the BBS or in conference. OUTPUT as: N9IKD (B/4), where N9IKD is a BBS user and is on the BBS's logical channel #4. (please refer back to ZP # where 4 would be used to ask N9IKD to join the conference.

The DX spotting list is a 10 line buffer which adds new info to the bottom of the list and removes from the top.

A typical entry: ZA 180NE on 14.280 - listening up 20 (your call sign would be appended to this entry)

When in conference, whatever you type is transmitted by the BBS to ALL other station also in the conference.

The "C" command is a fun one - TRY IT !!

D - is for the Download command. Nothing new here. Used to read a file. The format is: D filename where filename is the name of the file to be read. Use W or WN to see what's available. To get a file from a sub-directory, type: D Directoryname\filename.

G - is the search command - (GREP, a Unix utility). This is NOT as zippy as the OS SEARCH you got used to with stations running MBL software, but gets the job done. Will search files (enter filename [after G]) for a string of characters - and will print all lines that contain the string. Case insensitive, and NO wild cards (*) allowed. This command MAY be disallowed at the discretion of the sysop ! See "W" for details on how to find out what you may use the "G" command on.

H - is the Help command - you get a short description of this alphabet soup.

I - gives a hardware description of the BBS.

ID - gives a list of the ports and digipeaters and gateways available (if any).

J - will show a list of stations heard on the various ports of the BBS. You may (with each of the below) specify the port; as JK 1.

JD - gives a list (with time and date) of digipeaters.

JK - gives a list of KA nodes.

JG - gives a list of gateways

JM - gives a list of MSYS stations

JN - gives a list of NET-ROM nodes

K - is used to Kill (delete) old messages from the system. You may only kill those that involve your station. Don't forget to put a space between K and the number of the message. Multiple message "Kills" are done by: K 642 1187 4123

KM - Deletes all messages to you

KT # - Kills NTS traffic (msg #) you are going to deliver

L - Lists certain message headers.

L - List messages since you last signed onto BB

LM - List messages to or from you (as in List Mine)

LN - List messages not yet read

LT - List NTS Traffic

LL # - List the last # messages (as LL 10 gives last 10)

LO - yymmdd List messages older than yymmdd

LU - List unread messages to you

LY - List messages that you read, but did not delete

LW - List type "W" (weather) messages

L? - List messages that will not forward

L< callsign - List messages from callsign (as L< KC9BK)

L> callsign - List messages to callsign

L@ callsign - List messages being sent to a given BBS

L # - List messages equal to AND greater than #

L # # - List messages from # to # (as L 827 850)

L"string" - List messages with "string portion" in title

L'string' - List same as L"string" L\$ List messages of type \$

M - will give you Message of the day. If you have selected Expert mode, (see X), this is the only way you can obtain this message as it will NOT be shown on connecting.

N - allows you to register with the BBS - - PLEASE DO THIS - - using the data appropriate for you. Examples are:

N Jerry (your name)

NQ Brown Deer, WI (your QTH)

NZ 53209 (your Zip)

NH KC9BK (the PRIMARY BBS you normally get mail on)

P - used as P callsign - Used to find the path last used by a station to connect to this BBS (Try your own callsign as practice)

PF - used as PF callsign - Used to see if system knows a path to the "@ BBS" station used in the S command - callsign is the BBS of "@BBS"

R - used to Read messages (don't forget the space before the message #, or to separate multiple message #'s (R 821 966 1035) This

is also used as:

RH - Gives complete forwarding info

RN # - Just like the "R" command, but gives NO headers

RM - Read all unread messages for you (as in Read Mine)

S - used to Send messages. The format is S* to call @bbs - where the * is the message type (P for private, etc.) The * is optional as is the @bbs (this helps if known, but the system should be able to route it if not there - - if no route stored, then it goes to call @call. You'll be asked for a title - - if going to a non-local call, please insert "QTC Destination city and state and zip" as: QTC Rockton AK 12345 - it helps to get it there.

SB - used to send Bulletins

SP - use to send Private (assumed if sent to specific callsign)

ST - used to send Traffic

If you want to make a message to a specific call readable by everyone, use the form: SB call @bbs, not just S

T - used to Talk to the sysop (Who would want to ??) This will autoexit back to the BBS in 60 seconds if the sysop is not there.

U - used to see who else is connected to the BBS plus a host of other goodies - Try it !

A special note on Uploading files (The conventional use of the command "U"). Only TCP/IP stations may do it ad lib. THIS IS A SYSOP GRANTED (flagged) PRIVILEGE. For BBS users, the "FILE" has to be sent as a regular message to the sysop, and then the sysop notified in a separate message of the intent of the "file" message. The sysop can then make the necessary adjustments at the BBS to make "File" message into a genuine FILE.

If the truth be known, there IS another way to do this as a "regular" BBS user, but IT MUST BE DONE 1.) with discretion; 2.) with the blessing of the Sysop. This method deals with the various DATABASE.xxx files your MSYS sysop has CAREFULLY put together for you use and perusal. Please contact your MSYS sysop for all the details (if he cares to divulge them) as he has most probably spent a great deal of time arranging those files and would rather that you go through him to get your file listed as opposed to just having you "dump" it there. There are those reading this saying, "No way - - I already know that one..." - - PLEASE BE ADVISED THAT THE MSYS HAS AN "EXCLUSION" LIST - - Misuse of this privilege may lead to being a prominent member of that exclusive (pardon the pun) club. Your co-operation WOULD BE APPRECIATED.

V - used for the version of the software and some dates and times that show when the BBS started using it (A real winner - you'll most probably need some ice handy to keep the keys cool as you punch "V")

W - used to list the files available for downloading

(continued on page 19)

Yellow Thunder Amateur Radio Club



K90DK
WB9FDZ

Harry Westlund, K9EHJ,
Secretary
720 Jefferson Street
Baraboo, WI 53913

The next meeting of the Yellow Thunder Amateur Radio Club will be held on Monday, September 18, 1989 in room 288 of the Baraboo Civic Center in Baraboo, Wisconsin. The meeting will start at 7:30 p.m.

The August meeting of the YTARC was not held due to lack of attendance. See above for the next meeting.

YTARC BIRTHDAZE

Jermy Wight	WB9NVI	September 10
John Hansel	WB9TIG	September 16
George Halper	W9SUF	September 16
Norman Gade	K9ELK	September 22
Gordon Grant	W9ULM	September 23

SENTENCE SERMON

If someone were to pay you ten cents for every kind word that you have spoken about people, and collect five cents for every unkind word, would you be rich or poor?

--Word and Way

WAPR - JUST WHEN - MSYS
(continued from page 18)

W - lists all files with their dates and sizes
W (Directory) - list all files in a sub-directory
X - used to toggle the Expert status. When toggled on, you'll skip the introductory message and the alphabet soup menu and just get a ">" as the prompt (better keep this list handy !!). You may give "X" an argument (with a space between) to set the number of lines sent to you during a Read command

before pausing so that long messages don't scroll off the top of your screen. The system will ask: More? - To read more, hit RETURN; to abort the read, hit N and then RETURN. Or, you can type C if you want to scroll, even though you gave the X command a value to stop at.

* - used at the beginning of a line to be used as a comment. The NEXT COMMAND PROMPT WILL BE SUPPRESSED, but the system will be waiting for a command IMMEDIATELY AFTER you finish using the "*" on one or more lines. This is useful to answer the sysop if you get a "MESSAGE FROM SYSOP". (Not all are like "pink slips")

? - if all else fails, type ?*, where * is the command you need refreshing on; as: ?S - will give you pretty much the same as is here for the S command, but will do it ON-LINE.

There you have it - - USER COMMANDS FOR MSYS - - With MSYS stations popping up like goldenrod around the state, these should make life a bit easier AND you should be able to make MSYS jump thru hoops (it loves to do that!) This SUPER software is FILLED with goodies - USE THEM !!

Finally, I must remind you that the material used in compiling this list is copyrighted (1989) by HUB COMPUTERS, INC., and the use of it as a reference was intended to disseminate knowledge about the use of their excellent product, and not as an infringement on that copyright.

A parting shot - - don't get too smug about "feeling safe" in these shark infested waters with the use of this material because if you look carefully at the horizon, you'll see another dorsal fin - - this one has AA4RE (another multi-connect BBS program) emblazoned on it !!!



SSB

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A U C T I O N

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Amateur eradio equipment: Heathkit SB-221 linear amplifier; Hallicrafter HT-32A exciter/transmitter; Electronic Assistance Corp. R-390A/URR(976) receive; Heathkit DX-100 transmitter; Eldico SSB-100F Transceiver; MTI 2800A antenna positioner; Hammlund HQ-one seventy radio; Vibroples Speed Key; M-rotor; 2-meter vertical antenna; Mosley Tri-bander SR antenna.

TV service equipment: Precision Apparatus E-400 sweep generator; B&K 124 digital color generator; B&K sweep/marker generator; B&K 1470 dual trace oscilloscope; Channel Master signal level meter; Jerrold signal level meter; RCA signal generator; EICO flyback transformer & yoke tester; B&K 530 semiconductor tester; B&K 1077B TV analyst; RCA isolation transformer; B&K 3050 signal generator; B&K 467 restorer/analyzer; B&K 747B tube tester; B&K 600 dyna-quick tube tester; B&K 1040 CB service master; 2 RCA, 1 Sylvania tube replacement service kits; Simpson genescope; Meissner analyst; Sams Photofacts (1 thru 2000); gin pole for tower sections & other items.

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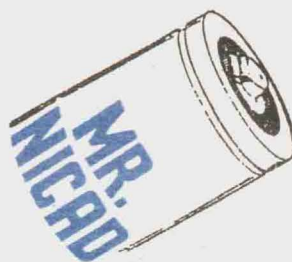
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Tri-County ARC Presents Fall-Fest 1989

Due to a busy club commitment schedule,
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